

April 27, 2012

BY RESS and COURIER

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, Ontario
M4P 1E4

Dear Ms. Walli:

**Re: Union Gas Limited ("Union")
Thunder Bay Pipeline Project
Board File # EB-2012-0226\EB-2012-0227**

Enclosed please find two copies of Union's Application and pre-filed evidence for the above-noted project.

In the event that you have any questions on the above or would like to discuss in more detail, please do not hesitate to contact me at 519-436-4601.

Sincerely,



Mark A. Murray, LL.B
Manager, Regulatory Projects and Lands Acquisition
:mjp
Encl.

cc: Neil McKay, Manager Facilities Applications
Zora Crnojacki, Project Advisor

ONTARIO ENERGY BOARD

IN THE MATTER OF The Ontario Energy Board Act,
S.O. 1998, c.15, Schedule B, and in particular, s.90
thereof;

AND IN THE MATTER OF an Application by Union
Gas Limited for an Order granting leave to construct a
natural gas pipeline and ancillary facilities in Gorham
Township and the City of Thunder Bay, both in the
District of Thunder Bay

IN THE MATTER OF the *Municipal Franchises Act*,
R.S.O. 1990, c.M.55, as amended; and in particular Section
8 thereof;

AND IN THE MATTER OF an Application by Union
Gas Limited for a Certificate of Public Convenience and
Necessity to construct works to supply gas to the
inhabitants of Gorham Township.

UNION GAS LIMITED

1. Union Gas Limited (the “Applicant”) hereby applies to the Ontario Energy Board (the “Board”), pursuant to Section 90.(1) of the Ontario Energy Board Act (the “Act”), for an Order granting leave to construct approximately 19.0 kilometers of NPS 16 natural gas pipeline and 13.0 kilometers of NPS 12 natural gas pipeline (“Proposed Facilities”) from TransCanada Pipeline’s valve site in Gorham Township (“Gorham”), in the District of Thunder to the Ontario Power Generation generating station on Mission Island in the City of Thunder Bay.
2. Attached hereto as Schedule “A” is a map showing the general location of the proposed pipeline and the municipalities, highways, railways, utility lines and navigable waters through, under, over, upon or across which the proposed pipeline will pass.
3. The construction of the proposed pipeline will allow the Applicant to meet the natural gas requirements of Ontario Power Generation.

4. The Applicant now therefore applies to the Board for an Order granting leave to construct the Proposed Facilities as described above.
5. Gorham is an unincorporated township and therefore, is not a municipal corporation incorporated under the laws of the Province of Ontario. Attached hereto, and marked as Schedule B is a map showing the location of Gorham.
6. Gorham is unicorporated therefore there is no council to which the Applicant can apply for a Franchise, By-Law and Resolution permitting the Applicant to distribute gas in the township.
7. The Applicant therefore applies for an Order or Orders approving a Certificate of Public Convenience and Necessity to construct works to supply gas to the inhabitants of Gorham.

Dated at Municipality of Chatham-Kent this 27th day of April, 2012.

Per: Joe Marra, Assistant General Counsel
for Union Gas Limited

Comments respecting this Application should be directed to:

Mark Murray
Manager, Regulatory Projects & Lands Acquisition
Union Gas Limited
50 Keil Drive North
Chatham, Ontario
N7M 5M1
Telephone: 519-436-4601
Fax: 519-436-4641

Email:
mmurray@spectraenergy.com

Dan Jones
Assistant General Counsel
Union Gas Limited
50 Keil Drive North
Chatham, Ontario
N7M 5M1
Telephone: 519-436-5396
Fax: 519-436-5218

Email:
dxjones1@uniongas.com



TCPL Thunder Bay Meter Station

Onion Lake Station

GOREVALE RD

DAWSON RD

GOVERNMENT RD

JOHN ST

OLIVER RD

CITY OF
THUNDER BAY

Belrose Station

THUNDER BAY-EXPY

Lakehead Harbour
(Lake Superior)

11/17

HARBOUR EXPY

ARTHUR ST-W

HWY 61

OPG Generating Station

Legend

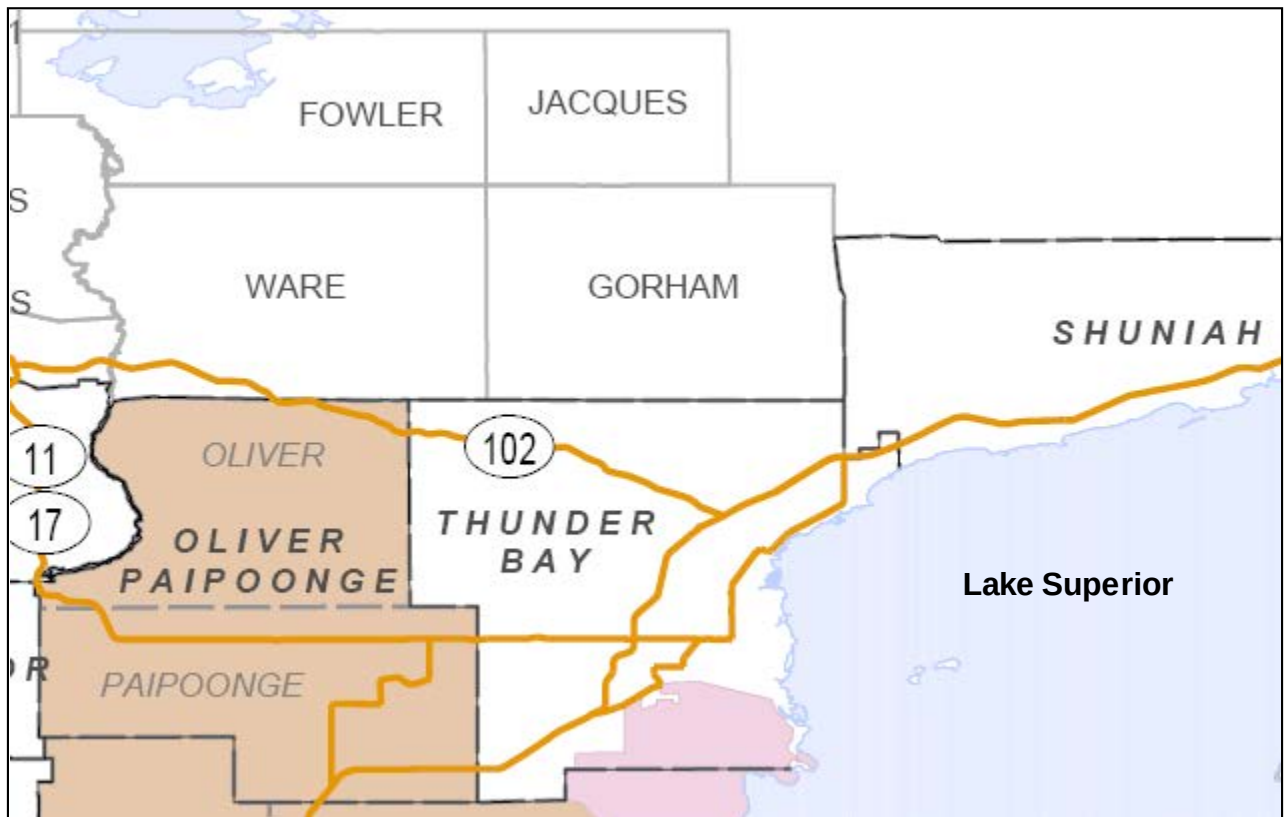
--- Preferred Route

— Highway

— Road

0 1 2
km

Location of Gorham Township



ThunderBay Pipeline Project

Applications

Leave to Construct
Certificate of Public Convenience and Necessity

Prefiled Evidence

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Schedule 8 -	Summary of Key Input Parameters
Schedule 9 -	TSSA Abandonment checklist
Schedule 10-	Specification for Rock Excavation
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Schedule 13 -	Environmental Report
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PROJECT SUMMARY

1. In response to a request for natural gas service from Ontario Power Generation (“OPG”) for the Thunder Bay Generating Station (“Generating Station”), and to ensure the continued safe operation of the Union Gas Limited (“Union”) pipeline system, Union is seeking an Order under Section 90.(1) of the Ontario Energy Board Act for leave to construct approximately 19.0 kilometers of NPS 16 natural gas pipeline and 13.0 kilometers of NPS 12 natural gas pipeline in 2013 (“Proposed Facilities”) from TransCanada PipeLine’s (“TCPL”) valve site in Gorham Township (“Gorham”) in the District of Thunder Bay to the Ontario Power Generation (“OPG”) Generating Station on Mission Island in the City of Thunder Bay.
2. The total capital costs of the Proposed Facilities, including all pipeline and station costs, are estimated to be approximately \$62,924,000.00.
3. Union has entered into a contract with OPG for the Proposed Facilities.
4. An economic analysis has been completed that is consistent with past projects of this type. This analysis shows that, with a contribution from OPG, the Proposed Facilities have a positive profitability index which, combined with other factors identified in paragraph 58, demonstrates their construction is in the public interest.
5. An Environmental Report (“ER”) has been prepared for the Proposed Facilities. The ER concludes that there will be no significant environmental impacts associated with construction of the Proposed Facilities given Union’s standard construction procedures and the mitigation measures recommended in the ER.
6. The Generating Station requires natural gas service for commissioning by November 1, 2013. Union plans to construct the Proposed Facilities during the summer 2013 season in order to

construct the pipeline during favourable weather conditions. Therefore, Union respectfully requests the timely approval of this application by September 2012.

7. A portion of the proposed pipeline lies within Gorham. Union is requesting Board approval of a Certificate of Public Convenience and Necessity for Gorham. Union has determined that although it has historically supplied some customers in the Township, it had not obtained a Certificate of Public Convenience and Necessity and wishes to rectify this situation through this application.

NEED FOR PIPELINE

MARKET REQUIREMENTS

Overview

8. The Generating Station is a 306 megawatt coal fired plant located on Mission Island in the City of Thunder Bay on the north shore of Lake Superior. The facility is owned and operated by OPG.
9. The Generating Station came into service in 1963. The facility originally consisted of a single 100 megawatt coal fired unit. In 1982, this unit was replaced with two coal fired units with a generating capacity of 306 megawatts.
10. The Generating Station is currently a peaking load station, meaning it typically generates only during the peak hours of the day and when the weather is very cold, very hot or there is a requirement for capacity reinforcement on the transmission system.

Natural Gas Considerations

11. The Ontario Government has announced its intention to replace all coal fired generation in the province by the end of 2014. In particular, Ontario's Long Term Energy Plan released in 2011 identified that the Thunder Bay coal-fired generating station would be converted to a natural gas fired generating facility by 2014. A copy of Ontario's Long Term Energy Plan can be found at the following link: www.longtermenergyplan.com. The Minister of Energy issued a direction to this effect to Ontario Power Authority on August 17, 2011 a copy of which direction is Schedule 1.
12. This conversion of the coal fired units to burn natural gas in the Generating Station will be undertaken by OPG.
13. OPG requires natural gas service to the site in 2013 in order to complete the retrofit and commissioning of the units by the end of 2014.

Volumes and Service Need

14. The Generating Station will have a peak hourly natural gas requirement of 94,000 m³ per hour, once the natural gas equipment is installed and is fully operational.
15. For the commissioning period November 2013 to December 2013 the gas redeliveries will be covered under a R25T interruptible arrangement. The commissioning period will end December 31, 2013 and firm R20T service and the reduced R25T service will commence.
16. Once commissioning has been completed and the Generating Station is operational, OPG has requested a combination of firm and interruptible redelivery or transportation service with a firm daily Contract Demand (CD) of 1,880,000 m³ and an interruptible CD of 376,000 m³. The firm service will be accommodated under Union's R20T service, while the interruptible portion will fall under the R25T service.

17. Under these transportation arrangements, OPG can deliver its daily gas requirement to Union in the TCPL Western Zone and Union would redeliver those volumes to the Generating Station.
18. Any variations between the amount of gas delivered to Union in the Western Zone and the actual amount of gas taken at the Generating Station will be handled through the Union Customer Balancing Service (“CBS”) and a Thunder Bay balancing service, depending on the consumption for that particular day.
19. Union has a Rate 20 distribution contract with OPG. The expiry date of the contract is December 31, 2033.

SYSTEM REQUIREMENTS

20. Since 2002, Union has developed an extensive pipeline maintenance and integrity management program that includes the regular monitoring of pipelines for corrosion, leaks or other potential damage to ensure our pipelines remain in safe operating condition.
21. As part of this program, Union regularly conducts in-line assessments of its pipelines using In Line Inspection tools called “pigs” to determine the condition of its pipelines. Based on the results of these assessments, Union takes appropriate mitigative action to address any integrity issues that are found.
22. In 2008 integrity assessments were completed on the Thunder Bay Lateral. Based upon the results of this assessment, it was determined that future mitigative actions would be required on the Thunder Bay Lateral.

23. To meet the increased natural gas requirements of OPG and complete the mitigation work required on the Thunder Bay Lateral, Union determined that the preferred alternative would be to increase the size of the existing Thunder Bay Lateral from a NPS 10 pipeline to a NPS 16 pipeline.

FACILITIES PLANNING

Existing Facilities

24. Union's Thunder Bay system is fed from a connection to the TCPL system at TCPL mainline valve #67. This is known as the Thunder Bay Onion Lake tap. It supplies the required natural gas volumes for Union's entire Thunder Bay network. Union's Onion Lake Station has pressure control, odourant and metering facilities near the TCPL tap.
25. The Thunder Bay pipeline network is illustrated in Schedule 2. This high pressure system consists of approximately 18 km of NPS 10, 6895 kPa Maximum Operating Pressure ("MOP") pipeline that runs from the Onion Lake Station south to Union's Belrose station ("Thunder Bay Lateral").
26. At the Belrose station the gas is reduced in pressure to 2275 kPa to feed the 2275 kPa MOP system. This system has a feed from the Belrose station as well as a feed from the Onion Lake Station. The 2275 kPa MOP system consists of an NPS 10 pipeline and NPS 12 pipeline interconnected network between Belrose and Onion Lake station. In addition, an NPS 6 pipeline runs westerly from the intersection of Arthur Street and Neebing Avenue and feeds the area west of the City of Thunder Bay. There are a number of pressure regulation stations off of the 2275 MOP network that feed the entire Thunder Bay network.
27. The existing Thunder Bay local distribution network is comprised of approximately 1,000 km of NPS 1 to 12 pipelines. These pipelines distribute natural gas to approximately 41,000 customers

in the City of Thunder Bay and surrounding municipalities. Sections of the pipeline network operate at MOP's of 1210, 620 and 420 kPa.

Proposed Facilities

28. Union is seeking Leave to Construct for approximately 32.0 km of NPS 16 and 12 pipelines.
29. The first section of NPS 16 6895 kPa MOP is a replacement of the following pipelines:
 - a. The NPS 8 pipeline between TCPL's Thunder Bay tap and Onion Lake; and,
 - b. The Thunder Bay Lateral,collectively referred to as the "Replacement Pipeline".
30. The remaining pipeline is a new section of approximately 13.0 km of NPS 12 3450 kPa MOP pipeline that will run from the Belrose station in a southerly and easterly direction to a proposed customer metering station on the OPG property.
31. At the Belrose Station pressure regulation will be installed. This station will reduce the pipeline MOP from 6895 kPa to 3450 kPa.
32. The OPG customer station will deliver the design volume of 94000 m³/hr at a delivery pressure between 552 kPa and 758 kPa.
33. The existing TCPL Thunder Bay tap does not have the capacity to supply the volume required by the Generating Station. TCPL will apply to the National Energy Board to construct a second tap at mainline valve #67.
34. At the Onion Lake Station additional measurement, odourant and filtration facilities will be constructed for the new pipeline.
35. A schematic of the proposed pipeline can be found in Schedule 3. These facilities will meet the needs of Union's existing customers and the increased loads proposed for the OPG facility.

Alternatives Considered

36. The size of the proposed 94000 m³ demand made it evident early in the design alternatives analysis that there were no viable alternatives to supply this proposed load from the existing Thunder Bay system.
37. Based on this assessment, new facilities between TCPL and the Generating Station were investigated.
38. Based on the fact that mitigation measures were required on the Thunder Bay Lateral and there was the opportunity to combine the two projects, the alternatives that were considered were limited to different pipe sizes and operating pressures.

Pipe size between Onion Lake and Belrose

39. Two alternatives were considered for the pipeline from Onion Lake regulating station and Belrose regulating station.
 - a. Alternative A: install a NPS 12 pipeline. This option was not feasible as a NPS 12 main would not have sufficient capacity to serve both the Thunder Bay distribution loads and OPG.
 - b. Alternative B: install a NPS 20 pipeline. This option was not feasible as it was not cost effective although it provided excess capacity and system pressures.
40. The design chosen was an NPS 16 pipeline. This will provide adequate capacity and system pressures for Thunder Bay distribution loads and OPG, as well as future growth on the distribution side. The NPS 16 pipeline meets the system requirements and is more cost effective than a NPS 20 pipeline.

Pipe sizes between Belrose and OPG

41. One alternative was considered for the pipeline from Belrose regulating station to the OPG site:

- a. Install a NPS 10 pipeline. This option did not provide adequate system pressure to meet the contracted delivery pressure at the OPG site.
42. The design chosen was a NPS 12 pipeline. This will provide adequate delivery pressure to OPG and has capacity for the peak contracted load of 94000 m³/h.

Pipeline pressures considered between Onion Lake station and Belrose station

43. From the Onion Lake station to the Belrose station a MOP of 3450kPa was considered and rejected as it does not provide adequate capacity and system pressures to the Belrose station. It would require a new regulating cut at the Onion Lake station. The pressure chosen was a MOP of 6895 kPa. This will provide adequate pressure.

Pipeline pressures considered between Belrose station and OPG

44. A MOP of 2275kPa was considered out of the Belrose station to service the OPG line. This pressure was rejected as it required larger diameter pipe and increased costs.
45. A MOP of 3450kPa was chosen from the Belrose regulating station to the OPG sales metering station to accommodate the current load request as well as provide additional capacity for future growth. Based on peak design parameters and pressures available, the current operating pressure at Belrose station will be set at 2410kPa.

PROJECT COSTS AND ECONOMICS

Project Costs

46. The total estimated capital cost for all the facilities required for the Project including pipeline and stations is as follows:

Total Pipeline Cost (including Environmental cost)	\$51,027,000.00
Total Station Cost	<u>\$11,897,000.00</u>
Total Project Cost	<u><u>\$62,924,000.00</u></u>

47. The estimated total capital cost of the project includes contingencies and interest during construction (“IDC”).
48. The estimated material cost of the pipeline of \$5,972,000.00 covers the costs of all pipe, valves, fittings, coatings, miscellaneous items and stores overheads. Estimated costs for all materials are based on past experience and recent manufacturer quotes. The stores overheads cover all warehousing and handling costs of the materials.
49. The estimated costs of construction and labour of \$37,662,000.00 covers the installation of the pipeline, valving facilities and land acquisition. The construction and labour cost estimate is based on Union’s experience with construction of similar projects.
50. The estimated costs associated with environmental measures are included in the total pipeline capital costs shown in Schedule 4 and are detailed separately in Schedule 5. These costs are identified as pre construction-related, construction related, and post-construction related. The estimated total environmental costs are \$1,185,000.00.
51. The estimated total costs for construction of the proposed stations is \$11,897,000.00 as provided in Schedule 6. These station costs include plant items, contingencies, and interest during construction.
52. For the total capital costs of \$62,924,000.00;
 - \$48,138,000.00 is attributed to OPG; and,
 - \$14,786,000.00 is attributed to pipeline integrity.

Project Economics

53. Union has employed an economic feasibility test consistent with past projects of this type to assess the economics of this project.

54. The Board has found that new facilities are in the public interest if no undue burden is placed on existing customers.
55. A Discounted Cash Flow (“DCF”) analysis was completed. It can be found at Schedule 7. This Schedule indicates a Net Present Value (“NPV”) of zero and PI of 1.0 with OPG paying an aid to construction of \$23,625,000.00 on that portion of the proposed facilities attributed to OPG.
56. Schedule 8 provides the key inputs, parameters and assumptions used in completing the DCF analysis.
57. Union submits that the distribution of natural gas by Union to the Thunder Bay OPG facility is economically feasible and in the public interest.

Other Public Interest Considerations

58. There are a number of other public interest factors for consideration as a result of the addition of the proposed OPG facilities. These additional public interest considerations include the following:

Reduced Air Emissions

Natural gas, because of its cleaner-burning properties compared to other fossil fuels, has an increasingly important role to play in reducing the environmental impacts of energy use.

Emissions from the combustion of natural gas are less than other fossil fuels on a per unit of energy basis.

Utility Taxes - A decision to proceed with this project will result in Union paying taxes directly to various levels of government. Income, capital and municipal taxes paid by Union as a direct

result of the project are included as costs in the economic analysis. These taxes are not true economic costs of the project, but rather represent transfer payments within the economy, as they are available for redistribution by the federal, provincial and municipal governments. Since these taxes have been included as a cost in the analysis, they must also be considered as a benefit in order to reflect the appropriate economic benefit on an overall basis. Estimated incremental annual municipal taxes that Union will pay as a result of this project are \$300,000.00.

Employment - The construction of this project will result in additional direct and indirect employment. There will be additional employment of persons directly involved in the construction of the project and the manufacture of pipe. There are also substantial indirect benefits or multiplier effects related to these activities. Therefore, as a result of the construction of the Proposed Facilities, the Ontario economy would receive a positive employment benefit.

PIPELINE DESIGN AND CONSTRUCTION

Construction Matters

59. The Replacement Pipeline will be replaced and upsized.
60. The prime construction contractor will mobilize to the area. New NPS 16 pipe will arrive to the area via rail, will be off-loaded and stock-piled. Access roads will be constructed to gain entry and to clear and grade both the easement and temporary land use areas as required. Any topsoil and/or duff will be pushed to the easement edge or into the temporary land use areas for later replacement. Clearing along road allowance will also be required. The existing trench will be excavated, exposing the existing pipeline. The spoil material will be placed onto the easement, separate from the topsoil and duff. The existing NPS 8 and NPS 10 pipelines will be removed from the trench, cut into 18 m long sections and trucked off site. The trench will be backfilled. Some existing sections of pipe within road allowance may be abandoned in place. These abandoned sections will be capped and filled with grout. Stringing trucks will deliver the NPS 16 pipe. The pipeline will then be welded, x-rayed, coated and bending will take place as required. For the majority of the replacement, the trenching crew will excavate the existing

trench, making it wider and deeper as needed to accommodate the NPS 16 pipeline. Some blasting or hoe ramming may be required. Spoil will again be placed, separate from the topsoil and duff. The welded pipe will be lowered into the trench. Sand-padding, sack-breakers and swamp weights will be installed as needed given the ground conditions. The trench will be backfilled. Watercourse crossings and road crossings will be an open cut installation. Dawson Road will be a rock bore. Welding crews will complete all tie-ins of trenched, open-cut and bored sections. The continuous pipeline will then be cleaned, caliper pigged, hydrostatically tested and dried. Final tie-ins will be completed at TCPL, Onion Lake station and Belrose station and the pipeline placed into service. The required distribution piping will be tied over to the new NPS 16 pipeline. Final clean up of the easement and the road allowance will be completed.

61. The section between the Belrose station and the OPG customer station will be new pipeline construction.
62. The prime construction contractor will mobilize to the area. New NPS 12 pipe will arrive to the area via rail, will be off-loaded and stock-piled. Access roads will be constructed to gain entry to the working area. It will be necessary to clear and grade both the easement and temporary land use areas. Topsoil will be stored in the temporary land use areas. Clearing along road allowance will also be required. Stringing trucks will deliver the NPS 12 pipe. The pipeline will then be welded, x-rayed, coated. Bending will take place if required. The trenching crew will excavate a new trench. Some blasting or hoe-ramming may be required near the Belrose station. Spoil will be placed, separate from the topsoil. The welded pipe will be lowered into the trench. Sand-padding and swamp weights will be installed as needed given the ground conditions. The trench will be backfilled. Watercourse crossings will be an open cut or directionally drilled. All roads crossings and railway crossings will be horizontally drilled if possible. Welding crews will complete all tie-ins of trenched, open-cut and bored sections. The continuous pipeline will then be cleaned, hydrostatically tested and dried. Final tie-ins will be completed at the Belrose station and the OPG customer station and the pipeline placed into service. Final clean up of the easement and the road allowance will be completed.

63. The Proposed Facilities will be constructed using Union's standard practices and procedures and will be in compliance with the mitigation measures identified in the ER.
64. The NPS 10 pipeline will be abandoned in accordance with the TSSA abandonment guidelines which can be found at Schedule 9.
65. It is anticipating that blasting will occur for this project. The rock excavation specification can be found at Schedule 10.
66. Material is readily available for the project and Union foresees no problem in obtaining contractors to complete the proposed construction. Construction contract documents will be prepared at a later date. The ER will be included as part of the contract documents.
67. Permits, approvals and authorizations are pending from the Gorham Roads Board, City Of Thunder Bay, Hydro One, Lakehead Region Conservation Authorities, CP and CN Rail, Coast Guard, Fisheries and Oceans Canada, Ministry of Transportation Ontario, Ministry of the Environment and the Ministry of Natural Resources. Union expects to receive all approvals prior to construction.

Construction Schedule

68. Schedule 11 provides the proposed construction schedule for the project. Construction of the Proposed Facilities is expected to begin in May 2013 in order to meet the requested in-service date for commissioning in November 2013 and to construct the pipeline to avoid more costly winter and early spring weather conditions.

Design and Pipe Specifications

69. All design, installation and testing of the natural gas pipelines are in accordance with the requirements of Ontario Regulation 210/01, Oil and Gas Pipeline Systems under the Technical Standards and Safety Act 2000. This regulation governs the installation of pipelines in the Province of Ontario. The minimum design and pipe specifications for the proposed NPS 16 and 12 pipelines are outlined in Schedule 12.

70. The Ontario regulations include a classification system on land use and population density to determine the appropriate design factors.
71. A Class 1 location contains ten or fewer dwellings intended for human occupancy within a 200 m wide strip of land on either side of the centerline of any continuous 1.6 km length of pipeline.
72. A Class 2 location contains more than ten but fewer than 46 dwellings intended for human occupancy within a 200 m wide strip of land on either side of the centerline of any continuous 1.6 km length of pipeline. Further, a Class 2 location is designated to contain the following:
- a. A building that is occupied by 20 or more persons during normal use;
 - b. A small, well-defined outside area that is occupied by 20 or more persons during normal use such as a playground, recreation area, outdoor theatre, or other place of public assembly; or
 - c. An industrial installation such as a chemical plant or hazardous substance storage area, where release of products from a pipeline could cause the industrial installation to produce a dangerous or environmentally hazardous condition.
73. A Class 3 location contains more than 46 dwellings intended for human occupancy within a 200 m wide strip of land on either side of the centerline of any continuous 1.6 km length of pipeline.
74. The proposed NPS 16 pipeline is located within Class 1 and Class 2 locations. The pipe line is designed to meet the requirements of a Class 2 location. The proposed NPS 12 pipeline is located with Class 1 and Class 2 locations. The pipeline is designed to meet the requirements of Class 3 locations in areas where the potential for such development exists.

75. The MOP for the proposed NPS 16 pipeline is 6895 kPag, and will have an outside diameter of 406.4 millimeters. The MOP for the proposed NPS 12 pipeline is 3450 kPag and will have an outside diameter of 323.9 millimeters.
76. The minimum depth of cover specified is 0.9 metres to the top of the pipe. Additional depth will be provided to accommodate existing or planned underground facilities, or in specific areas in compliance with the applicable regulated standards.

ENVIRONMENTAL MATTERS

77. Stantec Consulting Ltd. prepared an ER for the proposed pipeline dated October 2011. The results of the ER indicate that the location of the proposed pipeline is environmentally acceptable. Union believes that by following its standard construction practices and adhering to the mitigation measures identified in the ER, construction of this project will have negligible impacts on the environment. No significant cumulative effects are anticipated from development of the proposed pipeline. A copy of the ER can be found at Schedule 13.
78. The ER was prepared in accordance with the Board's document "Environmental Guidelines for Locating, Constructing and Operating Hydrocarbon Pipelines in Ontario" [2011].
79. The objectives of the ER were to:
- a. Define a study boundary in the area of the proposed pipeline and review environmental conditions within this area;
 - b. Identify pipeline route alternatives for the section between Belrose and OPG;
 - c. Evaluate route alternatives and document the route selection process;
 - d. Undertake detailed environmental studies of the proposed route and assess the potential environmental effects of construction and operating a pipeline along this route;

- e. Record the concerns of Provincial ministries, municipalities, conservation authorities and landowners along the proposed route;
 - f. Recommend mitigation measures which minimize any adverse environmental impacts of pipeline construction; and
 - g. Provide pipeline contractors and the environmental inspector involved in the construction of the pipeline with general and site-specific guidelines for environmental protection that supplement Union's construction specifications.
80. A letter was sent on April 13, 2011 to all directly and indirectly affected landowners along the preliminary preferred route and to landowners on alternative routes. Letters were forwarded by mail or by mail drop and were provided to inform landowners of the project and of a Public Information Session. Also, at the same time letters were forwarded to environmental agencies, municipalities and First Nations and Métis, to inform them of the project and of the Public Information Session.
81. To solicit input from the general public with respect to the project, a Notice of Commencement and Notice of Public Information Session were published in two local papers. The Public Information Session, which identified a preliminary preferred route and several alternative routes along with potential mitigation measures, was held on May 12, 2011 in Thunder Bay, Ontario. The Public Information Session was attended by approximately thirty (30) interested individuals. Issues raised at this time included impacts to property such as temporary easements, water wells and tree removal; concerns regarding construction related activities around the Neebing McIntyre Floodway; natural gas safety and rehabilitation of drainage patterns. Please see the ER for additional information on these concerns.
82. A third newspaper notice was published in two local papers in October 2011 to inform the public of the preferred route and of the completion of the ER. Letters were also sent on October 3,

2011 to First Nations, Métis, Information Session attendees and to a number of landowners who have expressed an interest in the project throughout the ER process.

83. A copy of the ER was submitted to the Ontario Pipeline Coordination Committee ("OPCC") on October 17, 2011. Also, a copy of the ER was sent to local municipalities, the Lakehead Region Conservation Authority, First Nations, Métis and upon request to interested parties. Landowners received a copy of the Executive Summary and will be provided a copy of the ER upon request. A summary of the comments and Union's response to concerns from agencies and interested parties will be filed, when received, as Schedule 14.
84. During the review of the ER, residents in the Cambridge Street/Central Avenue area identified a number of issues with the proposed pipeline. A public meeting was held to explain the route selection process and review the issues identified by the residents. Subsequent to the public meeting, Stantec prepared a report detailing the issues, the public meeting, the detailed route of the proposed pipeline, and the mitigation measures that will be undertaken to address the residents' concerns. This report can be found at Schedule 15.
85. The total estimated environmental mitigation costs associated with the construction of the Proposed Facilities are identified in Schedule 5. These costs are identified as pre-construction related, construction-related and post-construction related. The estimated total environmental costs are \$1,215,000.00.
86. There are twenty (20) watercourse crossings associated with the construction of this project. Union will obtain all necessary permits associated with these crossings prior to construction.
87. When the project is constructed, the most up-to-date construction specifications will be followed.

88. Union will ensure that the recommendations in the ER, commitments and the conditions of approval are followed. An environmental inspector will monitor construction activities and ensure that all activities comply with all conditions of approval.
89. The results of the ER indicate that the environmental and socio-economic effects associated with construction of the project are generally short-term in nature and minimal. There are no significant cumulative effects as a result of this pipeline construction.

LAND MATTERS

Land Requirements

90. For the majority of the Replacement Pipeline between TCPL and Belrose Station, Union plans to use its existing easement and associated land rights or rights under Union's Franchise Agreement, to replace the NPS 8 pipeline and the NPS 10 pipeline with an NPS 16 pipeline. At two locations Union will require new easements.
91. For the section between the Belrose Station and OPG, Union will require new permanent and temporary land rights or utilize the provisions outlined in the existing franchise agreement with the City of Thunder Bay to construct the NPS 12 pipeline.
92. Union will require crossing permits or agreements with Municipalities, Conservation Authority, railways and other utilities along the pipeline route.
93. Union will require one fee simple purchase of land adjacent to the Belrose Station to expand this site.
94. Union has met or spoken with all of the directly affected landowners along the proposed pipeline route.
95. For the replacement section there are 66 directly affected properties. Union has reached agreement with 53 landowners, and an option agreement has been signed.

96. For the new section of pipeline there are 37 directly affected landowners. Union has reached agreement with seven landowners, and an option agreement has been signed.
97. Union continues to meet with the un-signed landowners in an attempt to reach an agreement.
98. There are three separate parcels of land in Gorham that are owned by the Province of Ontario and managed by the Ministry of Natural Resources (MNR). Union currently has the necessary crown easement rights on these properties however Union will require temporary land rights in order to facilitate pipeline replacement/construction. Union will follow MNR's standard Work Permit process to obtain the necessary rights to work on these lands.
99. Three directly affected landowners on the proposed pipeline are City of Thunder Bay, Hydro One (Infrastructure Ontario), and Canadian Pacific Railway. Normally when pipeline construction impacts these parties Union would construct the pipeline following the conditions of the franchise agreement, crossing permit, or a railway pipeline crossing master agreement. However, for the proposed pipeline these landowners also own land in fee simple along the proposed pipeline route which may not be covered under the franchise agreement, permit, or master agreement. Union has discussed the proposed project with these landowners but has not reached final agreement on the required land rights necessary for pipeline construction.
100. Attached at Schedule 16 is a summary of the landowner contacts that have and will take place during planning and construction of the proposed pipeline.
101. Schedule 17 is a map that shows the running line of the pipeline and the land rights required for the pipeline.

Pipeline-Related Easement Requirements

102. Schedule 18 lists the names and addresses and identifies the permanent and temporary land use rights required to construct both sections of the pipeline.

103. Union's form of easement is attached as Schedule 19 this form will be offered to all new landowners where permanent easements are required. This easement covers the installation, operation and maintenance of one pipeline. The main restrictions imposed upon the individual landowner by having this easement is that the landowner cannot erect buildings or privacy fencing in the easement. In addition, the landowner cannot excavate on the easement or install structures which would impede access to Union's pipeline. The landowner can, however, install service pipe or utility lines or develop the easement into a laneway or driveway entrance upon prior written approval by Union.
104. Temporary Land Use Agreements are usually required for a period of two years. This allows Union an opportunity to return in the year following construction to perform further clean-up and remediation work as may be required. Union will offer a form of Temporary Land Use Agreement form previously approved by the Board and utilized by Union in the past on similar pipeline projects.
105. At the conclusion of construction, Union will seek a Full and Final Release from each of the directly affected landowners. This Full and Final Release will include compensation for any damages caused or attributed to the pipeline construction.

Landowner Issues

106. Union has implemented a comprehensive program to provide landowners, tenants, and other interested persons with information regarding the proposed pipeline. Project information was distributed through correspondence and meetings with the public.
107. For over a decade Union has had in place a comprehensive Landowner Relations program which has proven successful on other projects. The key elements of this program are a Complaint Tracking system, and the assignment on a full-time basis of a Landowner Relations Agent to projects such as these to ensure that commitments made to landowners are fulfilled, to

address questions and concerns of the landowners, and to act as a liaison between landowners and the contractor and company engineering personnel. Union's Complaint Resolution System will be used in this project to record, monitor, and ensure follow-up on any complaint or issue received by Union related to the construction. This process assists in resolving complaints and tracking the fulfillment of commitments. A process chart and explanatory notes that describe the Complaint Resolution System are found in Schedule 20. In addition to the Landowner Relations Agent's duties during construction, the individual assigned to this position will conduct pre-construction and post-construction interviews to capture any concerns (so that they can be resolved, if at all possible) and document specific landowner concerns and comments (so that they can be considered in the planning of future projects).

108. After construction, negotiations with landowners will continue, where necessary, to settle any damages that were not foreseen or compensated for, prior to construction.

FIRST NATION AND MÉTIS

109. Union has a long standing practice of consulting with Métis and First Nations, and has programs in place whereby Union works with them to ensure they are aware of Union's projects and have the opportunity to participate in both the planning and construction phases of the project.
110. Union has an extensive data base and knowledge of First Nations and Métis organizations in Ontario and consults with the Tribal organizations and the data bases of the Ministry of Natural Resources, Ministry of Aboriginal Affairs and Aboriginal Affairs and Northern Development Canada to ensure consultation is carried out with the most appropriate groups.
111. Union has signed a General Relationship Agreement with the Métis Nation of Ontario which describes Union's commitments to the Métis when planning and constructing pipeline projects.
108. The following First Nations and Métis were notified by letter regarding the Project on three separate occasions.

Chief Peter Collins	Fort William First Nation
Ms. Carol Audet, Director of Lands and	Nishnawbe Aski Nation

Resources	
Ms. Melanie Paradis, Director, Lands, Resources and Consultation Branch	Métis Nation of Ontario
Chief Roy Michano	Ojibways of the Pic River First Nation
Chief Pierre Pelletier	Red Rock Indian Band
Chief Allan Gustafson	Whitesand First Nation
Chief Johanna Desmoulin	Pic Mobert First Nation
Chief Paul Gladu	Sand Point First Nation
Chief Bartholomew Hardy	Biinjitiwaabik Zaaging Anishinaabek First Nation
Chief Xavier Thompson	Pays Plat First Nation

109. Union conducted formal consultations with the following First Nations and the Métis Nation for the Project:

- o Fort William First Nation (“FWFN”)
- o Métis Nation of Ontario (“MNO”)
- o Red Sky Métis Independent Nation

110. The consultation included:

- o Jan. 25, 2011: emailed Melanie Paradis Director of Lands, Resources and Consultation, MNO information regarding OPG conversion;
- o January 28, 2011: Project commencement letters sent to FWFN and MNO.
- o Feb. 7, 2011: Presented the Project information to the Thunder Bay Métis Council Consultation committee;
- o February 9, 2011: met with Ian Bannon Acting Band Manager at FWFN to discuss project. Left maps and project notes with Ian Bannon;

- o February 11, 2011: Notice of Commencement placed in Thunder Bay Chronicle Journal and Thunder Bay Source;
- o February 16, 2011: spoke to Ed Collins the Acting Consultation manager for FWFN and informed him of the project;
- o February 22, 2011: Project Commencement letters sent to additional First Nations as provided by Aboriginal Affairs and Northern Development.
- o February 28, 2011: Met with Ian Bannon and Chief Peter Collins of FWFN in Toronto to discuss the project and the potential for goods and services involved with the project;
- o April 13, 2011: Project update and invitation to Public Information Session sent to First Nations and Métis;
- o April 21 and 22, 2011: Notice of Public Information Session placed in Thunder Bay Chronicle Journal and Thunder Bay Source respectively.
- o April 19, 2011: met with Ian Bannon (Acting Band Manager), Ed Collins (Interim Consultation Manager) and Brian Ludwigsen (Consultation Manager) of FWFN on project. Left a copy of the ER letters and maps for their use and discussed upcoming Public Information Session on May 12, 2011. Spoke about Fort Frances approach to goods and services approach on projects and will follow the same approach with Thunder Bay conversion project;
- o May 12, 2011: Attended Public Information Session and there were no participants that identified themselves from FWFN or MNO attended;
- o August 18, 2011; met with Ed Collins at Ontario First Nations Economic Developers Association conference and discussed the project. A list of the construction equipment list that could be accessed from FWFN was requested. Ed to send the information.

- o October 3, 2011: Notification of Preferred Route and completed ER sent to First Nations and Métis.
- o October 6/7, 2011: Notice of Preferred Route and completed ER placed in Thunder Bay Chronicle Journal and Thunder Bay Source respectively.
- o October 17/2011: ER forwarded to First Nations and Métis.
- o November 15, 2011: sent final routing map to Kevin Muloin Thunder Bay Consultation Coordinator Métis Nation.
- o January 25, 2012: sent email note to Ed Collins, Economic Development Director of Fort William First Nation and Kevin Muloin Thunder Bay Consultation Coordinator Métis Nation asking them to coordinate meetings on February 23 or 24, 2012 in Thunder Bay with their respective communities to discuss contracting and employment opportunities with the project.
- o February 7, 2012: Kevin Muloin declined the opportunity as there wasn't a fit for the Métis Nation contractors.
- o February 22, 2012: No responses to date from Fort William First Nation. Additional reminder note sent to Ed Collins.
- o March 27, 2012: Spoke to Donelda Delaronde Consultation Manager for the Red Sky Métis Independent Nation in Thunder Bay to discuss this project. Tentative meeting has been set for April 10, 2012 to present this project.
- o April 10, 2012: met with Donelda DeLoronde, Consultation Manager and Susan Blekkenhorst, staff assistant for the Red Sky Métis Independent Nation ("RSMIN"). The proposed project scope and background information was explained to RSMIN. Questions were answered regarding natural gas, construction practices, and safety. RSMIN identified Mission and McKellar Islands as significant historical areas. Additional meetings will be held to discuss RSMIN concerns.

111. Copies of the correspondence that were sent to the First Nations and Métis groups can be found in Schedule 21.
112. The following issues were raised as part of the consultations process:
- o FWFN and MNO would like to participate in the project by providing goods and services during the construction phase.
 - o Subsequent to the initial meeting, MNO has informed Union that they are not aware of any Métis citizens that could provide goods or services during construction.
 - o RSMIN recommends that a traditional study of the pipeline routes on McKellar and Mission Islands be completed.
113. Union proposed to address these concerns in the following manner:
- Union will work with the Economic Development departments of FWFN, MNO, Union's pipeline contractors and Union staff to find opportunities for their participation. Union is working with RSMIN on a proposal to conduct a Traditional study of the pipeline route on McKellar and Mission Islands.
114. During construction, Union has inspectors in the field who are available to First Nation's and Métis organization as a primary contact to discuss and review any issues that may arise during construction.
115. When Union completes the necessary archaeological assessments for the project Union will consult with and provide the result of the surveys to any First Nations or Métis upon their request.

CERTIFICATE OF PUBLIC CONVENIENCE

116. It has been determined that Union is serving customers in Gorham, and that Union does not have a Certificate of Public Convenience and Necessity for Gorham.

117. Pipelines were first constructed in Gorham in 1957. At that time, these facilities would have been for the purpose of transmitting natural gas through the Township to serve the cities of Port Arthur and Fort William (now Thunder Bay). There were no distribution facilities constructed in Gorham at that time, and Union believes that this is the reason a Certificate of Public Convenience and Necessity was not applied for at the time the original transmission facilities were constructed.
118. Since 1994 Union has constructed distribution facilities in Gorham without a Certificate of Public Convenience and Necessity. Union currently serves approximately 100 customers along 5.7 kilometres of distribution pipeline that lies within Gorham.
119. Union does not have any specific plans to expand the distribution facilities in Gorham. However, if any residents of Gorham request natural gas service Union will review the request on an individual basis. Union is willing to provide service following its distribution new business guidelines.
120. Union requests the Board grant Union a Certificate of Public Convenience and Necessity for Gorham.

Ministry of Energy

Ministère de l'Énergie

Office of the Minister

Bureau du ministre

4th Floor, Hearst Block
900 Bay Street
Toronto ON M7A 2E1
Tel.: 416-327-6758
Fax: 416-327-6754

4^e étage, édifice Hearst
900, rue Bay
Toronto ON M7A 2E1
Tél. : 416 327-6758
Télec. : 416 327-6754



AUG 17 2011

MC-2011-2974

Mr. Colin Andersen
Chief Executive Officer
Ontario Power Authority
1600-120 Adelaide Street West
Toronto ON M5H 1T1

Dear Mr. Andersen:

RE: Thunder Bay Generating Station Conversion to Natural Gas

I write to you pursuant to my authority as the Minister of Energy to exercise the statutory power of ministerial direction that I have in respect of the Ontario Power Authority ("**OPA**") under section 25.32 of the *Electricity Act*, 1998.

Ontario's Long-Term Energy Plan, released in November 2010, proposed converting two coal-fired units at the Ontario Power Generation ("**OPG**") Thunder Bay Generating Station to natural gas. These converted units are needed not only for local supply to the city of Thunder Bay, but also for system reliability in northwestern Ontario. Given the nature of the conversion, the Ministry of Energy ("**Ministry**") recognizes OPG's requirement for a long-term energy supply contract in respect of the output from these units (the "**Agreement**"). As such, the Ministry has determined to pursue the initiative (the "**Initiative**") of negotiating and concluding such an Agreement.

Direction

Therefore, I hereby direct the OPA to assume responsibility for exercising all powers and performing all duties of the Crown regarding the negotiation and conclusion of the Agreement with OPG. It is my expectation that the financial terms of the Agreement should be commercially reasonable for a facility being converted from coal to natural gas of the size and location of the Thunder Bay Generating Station. The Agreement should also provide an incentive to OPG to optimize the operation of the facility to reflect the hour-by-hour value of power to the Ontario electricity system.

The OPA will make reasonable efforts to complete the negotiations and execute the Agreement by December 31, 2011.

This direction is effective and binding as of the date hereof.

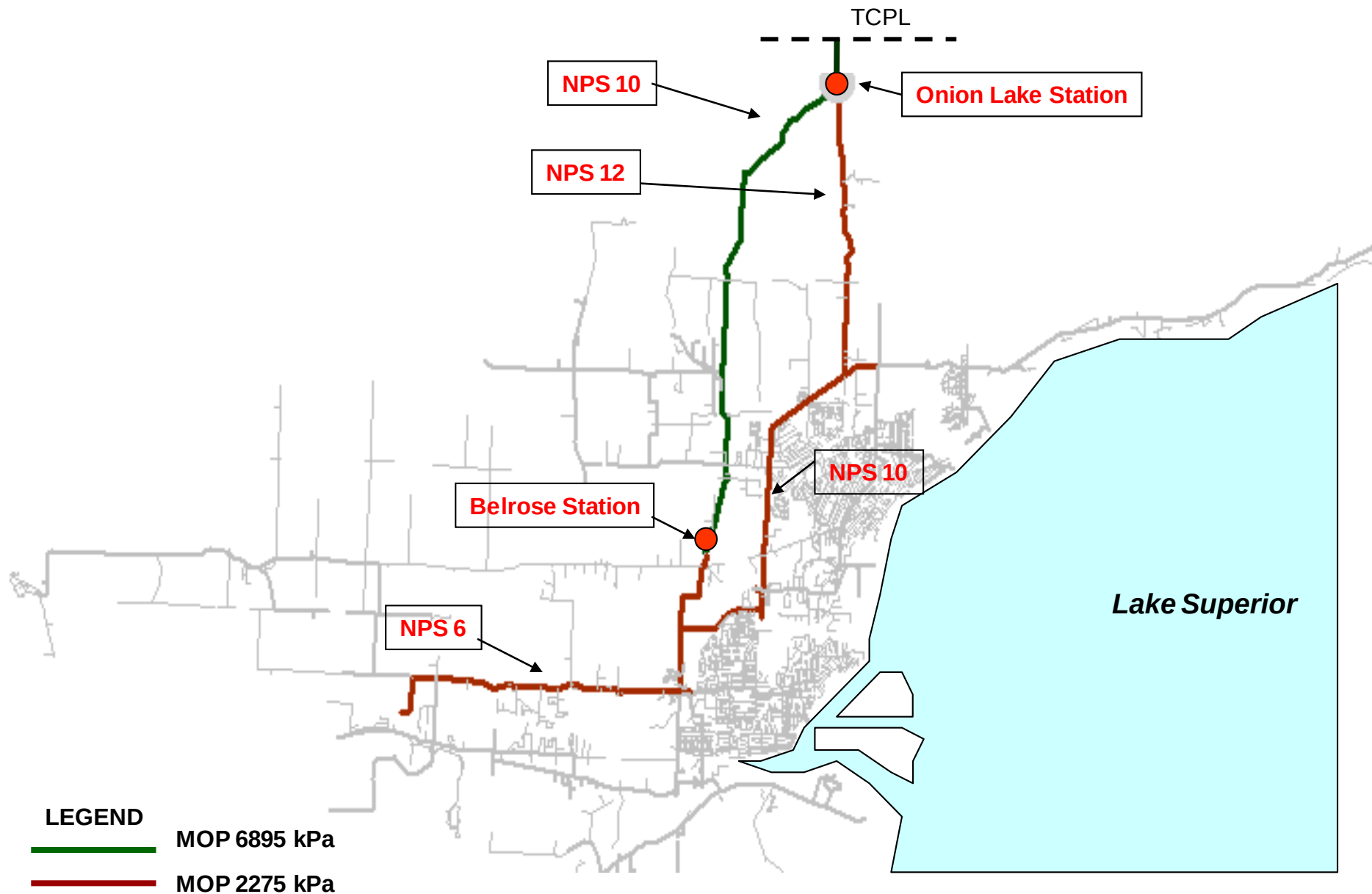
Sincerely,

A handwritten signature in black ink, appearing to read "B. Duguid".

Brad Duguid
Minister

Existing Thunder Bay High Pressure Network

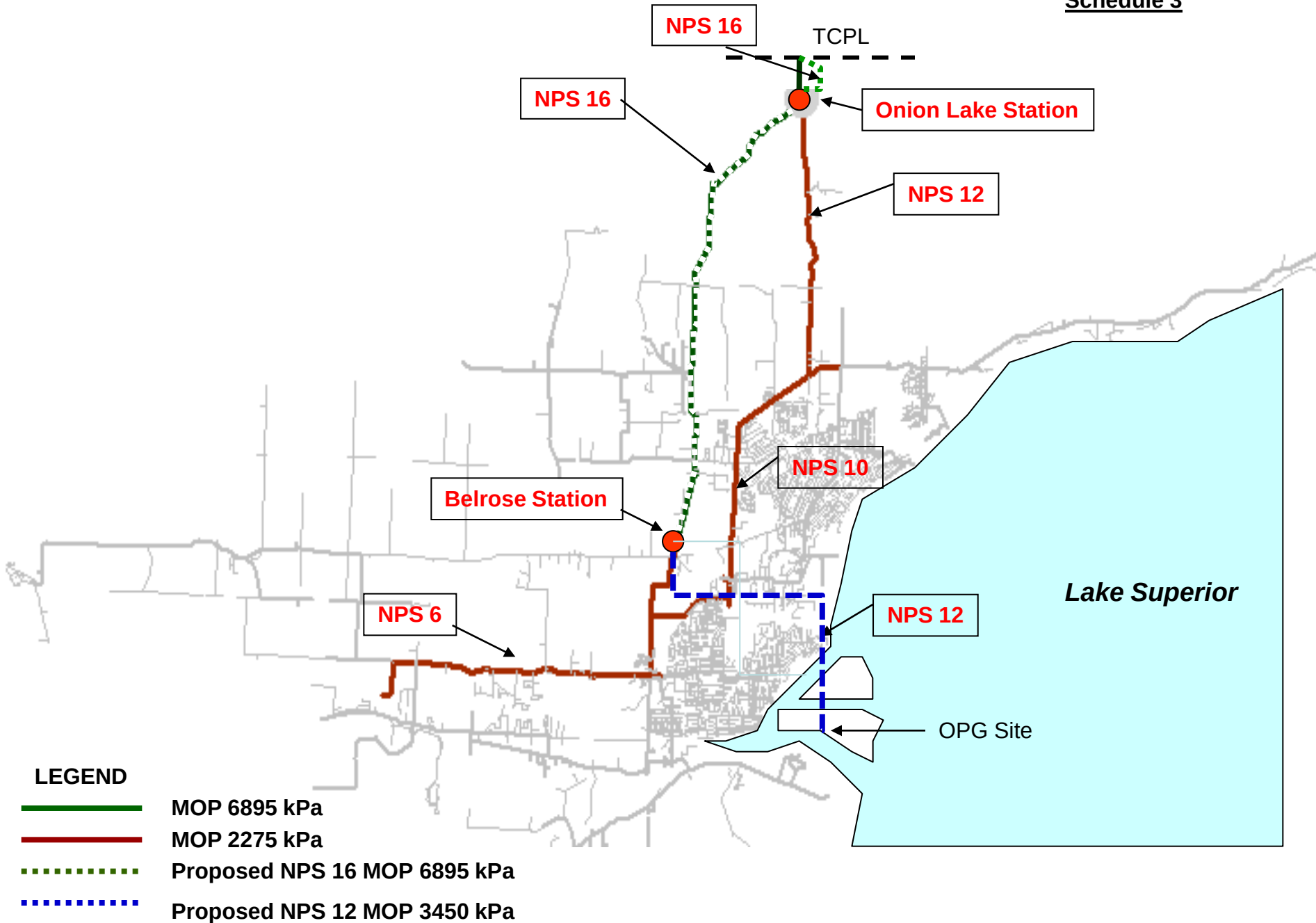
EB-2012-0226/0227
Schedule 2



Proposed OPG Thunder Bay Pipeline

EB-2012-0226/0227

Schedule 3



TOTAL ESTIMATED PIPELINE CAPITAL COSTS**THUNDER BAY GENERATING FACILITY****Pipeline and Equipment**

NPS 12 Steel Pipe, Coated 13,000 metres	\$1,642,000
NPS 16 Steel Pipe, Coated 18,600 metres	\$2,677,000
Valves, Fittings, Casing, Swamp Weights, Miscellaneous Material	\$1,520,000

Sub-Total	\$5,839,000
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Stores Overhead – Valves, Fittings and Misc. Material	<u>\$133,000</u>
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Total Pipeline and Equipment		\$5,972,000
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Construction and Labour

Lay 13,000 metres of NPS 12 Steel Pipe	\$28,110,000
Lay 18,600 metres of NPS 16 Steel Pipe	
Boring, Weights, Testing, Valving, Casing	
Miscellaneous Contract Labour	

Company Labour, X-Ray, Construction Survey, Legal, Mill Inspection and Consultants	\$5,611,000
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Easements, Lands & Damages	<u>\$3,941,000</u>
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Total Construction and Labour		\$37,662,000
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Total Pipeline and Equipment and Construction and Labour		\$43,634,000
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Contingencies		\$6,544,000
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Interest During Construction		\$849,000
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Total Estimated Pipeline Capital Costs – 2012/13 Construction		<u><u>\$51,027,000</u></u>
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Includes the Estimated Environmental Costs Identified in Schedule 5.

TOTAL ESTIMATED ENVIRONMENTAL COSTS**THUNDER BAY GENERATING STATION
PIPELINE PROJECT****Pre-Construction**

Environmental Assessment	\$	120,000
Infrastructure Ontario (EA)		30,000
Archaeology		40,000
Soil Sampling		30,000
Surveys		30,000
Hearing Costs (Environmental Consultant)		25,000
Permits		<u>30,000</u>

Total Pre-Construction **\$ 305,000**

Construction

Environmental Inspection	\$	50,000
Water Well Sampling		30,000
Stream Crossings		30,000
Site Restoration		560,000
Pipe Disposal Sampling		<u>50,000</u>

Total Construction **\$ 720,000**

Post Construction

Site Restoration	\$	140,000
Environmental Inspection/Monitoring		10,000
Tree Replacement		<u>40,000</u>

Total Post Construction **\$ 190,000**

Total Estimated Environmental Costs **\$ 1,215,000**

TOTAL ESTIMATED STATION CONSTRUCTION COSTS**THUNDER BAY GENERATING FACILITY**

Station Equipment	\$3,955,000	
Construction and Labour	\$6,091,000	
Land and Land Rights	<u>\$85,000</u>	
Total Station Equipment and Construction and Labour		\$10,131,000
Contingencies		\$1,520,000
Interest During Construction		\$246,000
Total Estimated Station Capital Costs – 2013 Construction		<u><u>\$11,897,000</u></u>

[illegible]

[illegible]

THUNDER BAY FACILITIES EXPANSION PROJECT
Project Specific DCF Analysis

**Stage 1 DCF - Listing of Key Input
Parameters, Values and Assumptions
(\$000's)**

Discounting Assumptions Project Time Horizon Discount Rate	commencing at facility in-service date of November 1, 2013 (Year 1 covers includes 2 month commissioning period and 10 months of contracted firm services from Jan. 1 - Oct. 31/2014) Incremental after-tax weighted average cost of capital of 5.0%
Key DCF Input Parameters, Values and Assumptions Net Cash Inflow: Incremental Transportation Revenue: Rate 20 Firm Transportation Contract Demand - assumed load factor Operating and Maintenance Expense Incremental Tax Expenses: Municipal Tax Income Tax Rate CCA Rates: CCA Classes: Eligible Capital Expenditure (ECE) Class 51 (Distribution Mains) Class 51 (Distribution Stations)	Approved per EB-2011-0382 Effective January 1, 2012 1,880,000 m³ 5% Load Factor includes potential revenues from interruptible services of \$100 during the commissioning period Estimated incremental cost Estimated incremental cost 2012=31.185% underpinning approved rates Declining balance depreciation rates by CCA class: 7% 6% 6%
Cash Outflow: Incremental Capital Costs Attributed to Ontario Power Generation Economics Change in Working Capital	Refer to Paragraph 52 of the Prefiled Evidence 7.1649% applied to O&M expenses based on EB-2005-0520 parameters



PIPELINE ABANDONMENT CHECKLIST

PLANNING

1. Has subsidence been considered for pipelines having a diameter greater than 323.9 mm (12 inches)?
2. Has the pipeline company notified the landowners and proper authorities (municipalities, MOE, MTO, MNR, etc.) of the abandonment?
3. Have abandonment procedures for crossings been agreed upon by utilities (road, railway, pipelines, etc.) and authorities responsible for rivers and streams crossed by the pipeline?
4. Has consideration been given to the effect of drainage in the area surrounding the abandoned pipeline, which may act as a conduit for ground water after the pipe is perforated by corrosion?
5. Has consideration been given to the removal of all the aboveground facilities?
6. Has consideration been given to any hazards posed to people, equipment, wildlife or livestock by any apparatus left in place above or underground?

IMPLEMENTATION

1. Has the abandoned pipeline been physically isolated from the live pipeline?
2. Has the pipeline been drained of all fluids and adequately cleaned to prevent ground water contamination from hydrocarbon residue on the pipe wall after the pipe is perforated by corrosion?
3. Have all aboveground facilities been removed and has consideration been given to removing underground facilities such as anode beds and tanks?

LIABILITY/RISK MANAGEMENT

1. Does the pipeline company have a contingency plan to remedy any contamination caused by the abandoned pipeline?
2. Has consideration been given to conducting post-abandonment surveillance programs?
3. Has consideration been given to maintaining signage after the pipeline is abandoned?
4. Has consideration been given to providing a locate service after the pipeline is abandoned?

Specification for Rock Excavation

3.10.1 Application

This specification applies to all solid rock (in its original formation) encountered in trenching for pipelines and which must be removed. Throughout this specification, all sections applicable to rock excavation using the Swartklip Boulder Buster are identified with the statement “applicable to the Swartklip Boulder Buster.”

3.10.2 EHS References

- Construction Regulations, Sections 196-206

3.10.3 General Requirements

Exercise great care to prevent damage to underground structures such as cables, conduits, and pipelines, water wells, springs and other underground water courses. Consult Environmental Construction Permitting when blasting near water courses. If the techniques of the Contractor appear to be injurious to these installations or formations, the Company maintains the right to require the cessation of work.

Solid rock, as classified by the Engineer, will be removed to a depth of 100 mm below the standard ditch depth to allow for padding between the rock and the pipe. The excavated ditch will be padded to a minimum thickness of 100 mm with earth, sand (free from rock), or other protective material approved by the Engineer. The padding material is to be placed in the trench in such a manner as to protect the pipe and the pipe coating from any hard points of rock. Use rockshield in locations designated by the Engineer.

Applicable to the Swartklip Boulder Buster - All Boulder Buster Operators must be certified and must carry proof of such certification while operating this equipment.

3.10.4 Use of Explosives

3.10.4.1 General

The Engineer will be notified of the Contractor's intention to use any explosive and may give consent to such use only after careful examination of the particular site of such use. After a careful inspection of the site, if there is an existing pipeline within 30 m of any proposed blasting, Form 2707, Blasting Information Request is to be filled out for blasting approval. When it is necessary to use explosives, blasting will not be done until occupants of nearby buildings, stores, houses, places of business and landowners have been notified in writing by the Contractor sufficiently in advance to protect property and livestock. The Qualified Individual will be present during blasting.

3.10

Specification for Rock Excavation

Take every precaution to protect the public and its workers from any injury or harm which might arise from the use of explosives. Only thoroughly experienced workers in handling explosives will be permitted to supervise, handle, haul, load or detonate explosives.

Blasting is not permitted within **5 m** of an existing operating pipeline without a consultant's recommendation and Pipeline and Station Operations Engineering written approval. However, in no event will any explosives be used at a point where, in the opinion of the Engineer, the use of such explosives would be dangerous to the existing pipeline(s) of the Company. A minimum of 48 hours notice must be given to the Company so that mainline valves may be inspected for accessibility and operability before blasting.

Where specified by the Engineer, furnish the necessary equipment to employ air bubble curtains at water crossings for the protection of fish and wildlife during blasting operations.

3.10.4.2 Blasting Consultant

The Contractor will employ, at his expense, the services of a blasting specialist to advise on drilling, loading patterns, and vibration levels as necessary.

3.10.4.3 Storage and Handling

Under no circumstances will detonating caps be stored with explosives. Store detonating caps in a separate place according to applicable codes and regulations. Do not prime or fuse explosives until just before use. Under no circumstances are loaded and fused holes to be left overnight.

3.10.4.4 Flyrock and Matting

Blanket all shots using heavy duty rubber blasting mats in good condition (e.g., joined tires). Do not use mats that have suffered a significant loss of rubber laminations. Do not use overburden material and sandfill as matting material.

Keep all flyrock to an absolute minimum and do not allow flyrock to be deposited outside the right-of-way. If flyrock is scattered over the right-of-way or adjacent property, clean up such flyrock to the satisfaction of the landowner and his tenants. Haul the flyrock to a location satisfactory to the Engineer for disposal. If, in the opinion of the Qualified Individual, the amount of rock scattered over the right-of-way or adjacent property is unwarranted, the Company maintains the right to require the cessation of work.

Notwithstanding the above requirements, place the mats over the blast area with the following minimum laps:

1. Within 50 metres of any house, building, structure, hydro tower, overhead wire or parked car, the mats will be double layered with lapped joints.
2. Use a 25% (minimum) lap at each abutting mat elsewhere.

Lay additional mats, as necessary, to control flyrock and to protect seismographic equipment at blast monitoring locations.

3.10.4.5 Warning Signals

Give distinct warning signals with an air horn during all blasting.

- Give five short signals to warn of pending detonation and need to clear the area.
- Give three short signals immediately before the blast.
- Give one long signal after the blast to indicate the safe completion of the blast.

3.10.4.6 Blasting

Do not blast before 8:00 am or after 7:00 pm, nor on Sundays and Statutory Holidays. In addition, do not start loading for any blast unless the loading can be completed and the blast matted and detonated no later 7 pm.

3.10.4.7 Vibration Limits

During all blasting operations, the Contractor will limit the ground vibration operated by each blast to the following limits:

- Where blasting is occurring within 30 m of an existing operating pipeline, the vibration will be controlled to a maximum peak particle velocity (PPV) of 50 mm/s above the pipeline.
- Where blasting is occurring within 200 m of any structure and any other sites as required by the Company, the peak particle velocity will not exceed 50 mm/s.
- In ground adjacent to concrete or grout in place less than 60 hours, the peak particle velocity will not exceed 10 mm/s.

The above limits refer to the intensity of the ground vibrations generated by blasting in any of the three mutually perpendicular planes, measured at the nearest point above a line to the location of the blasting. Vibration monitoring shall be supplied by the contractor at his expense.

The Contractor must submit revised blasting patterns to the Company, and as set out in this specification, if unable to maintain satisfactory levels of vibration during blasting.

3.10.4.8 Monitoring Procedures for Blasting Near Existing Pipeline

The Blasting Contractor will retain the services of a Blasting Consultant to monitor vibration levels on existing Company pipelines during each blast if:

- The pipeline is greater than NPS 12; or
- The pipeline, at the time of blasting, is operating at a pressure greater than 1,723 kPa; or
- The maximum explosive charge per delay values exceed those given in Table 3.10.1.

3.10

Specification for Rock Excavation

The blasting consultant will also monitor the vibration and air overpressure levels at any nearby houses and structures within a minimum of 200 m from the blast and any other sites as required by the Company.

The monitoring equipment will consist of a portable seismograph capable of producing on-site printouts that include the following information:

- Ground vibrations up to 200 millimetres per second (mm/s) of peak particle velocity (PPV) in the three mutually perpendicular directions.
- Frequency of all three mutually perpendicular directions.

Set up the transducers at the nearest point above a line to the location of the blasting.

The Contractor will assist the blasting consultant in setting up the equipment, in the event that monitoring is required on an existing pipeline. All excavation in the vicinity of existing pipelines will be carried out in the presence of a Qualified Individual and only after the pipe location has been established by electronic means.

The printout of each seismographic reading will be given to the Qualified Individual immediately after each blast.

Table 3.10.1

Stand-off distance from facility (m)	Maximum Explosive Charge (kg per delay)
5	1.00
6	1.44
7	1.96
8	2.56
9	3.24
10	4.00
12	5.76
14	7.84
16	10.24
18	12.96
20	16.00
22	19.36
24	23.04
26	27.04
28	31.36
30	36.00

Construction and Maintenance Manual

3.10.4.9 Excessive Vibration Readings

If there is any one seismographic reading in excess of the limits set out above, the following will apply:

1. Should any two consecutive seismographic readings fall between 50 and 80 mm/s PPV, the Blasting Contractor will cease all further blast hole loading other than those required for a third reading. The pipe will be exposed and a third reading will be taken on the pipe.
 - ♦ **If this third reading is below 50 mm/s PPV**, blasting may continue.
 - ♦ **If the third reading exceeds 50 mm/s PPV**, the Blasting Contractor will cease all blasting in the area and move to a new area and continue blasting. The Blasting Contractor will then submit a revised loading pattern to the Company for review in the area where blasting has been discontinued.
2. Should any one seismographic recording be in excess of 80 mm/s PPV, the Contractor will cease all further blast hole loading other than those required for one subsequent reading. The pipe will be exposed and the subsequent reading will be taken on the pipe.
 - ♦ **If this reading is below 50 mm/s PPV**, blasting may continue.
 - ♦ **If this reading exceeds 50 mm/s PPV**, the Contractor will cease all blasting in the area and move to a new area and continue blasting. The Contractor will then submit a revised loading pattern to the Company for review in the area where blasting has been discontinued.
3. In any area where blasting has been discontinued, blasting may only be resumed when permitted by the Qualified Individual.

3.10.4.10 Excavating and Backfill

When excavating loose rock from the trench after blasting, the Contractor must keep loose rock separate from any overburden that has previously been stripped. This can either be done by piling the overburden on the “spoil” side of the trench and the loose rock on the “work” side of the trench to be hauled out, or by piling both the overburden and the loose rock separately on the spoil side of the trench. The method to be used will depend upon the amount of overburden, width of the trench, and the type of terrain. The Qualified Individual will decide the preferred method and the material to haul away.

After backfilling operation is complete, the Contractor will remove excess material from the right-of-way. The material will be disposed of at a location satisfactory to the Engineer. This is also applicable to the Swartklip Boulder Buster.

3.10.4.11 Permits

Any permits necessary for blasting will be obtained by and at the expense of the Contractor, unless specified in the work description in the construction contract. Comply with all legal requirements in connection with the use, storage and transportation of explosives, including but not limited to the Canadian Explosives Act. Proper notification will be made to the authority having jurisdiction when required and conformance with all legal requirements will be made.

3.10

Specification for Rock Excavation

3.10.5 Damages

The Contractor will take all necessary precautions not to damage any structure owned by others. If damage should occur, the owner of the damaged structure will be contacted jointly by representatives of the Company and the Contractor and the repairs will be made at the Contractor's expense under the direction and to the satisfaction of the owner. This also includes damage to Company pipelines. This is also applicable to the Swartklip Boulder Buster.

3.10.6 Measurements

Rock removed for the clearing of right-of-way will not be considered as rock excavation.

A record of the location and quantities of all trench excavation classified as solid rock will be made for each property by the Inspector. This record will be submitted to the Contractor for acceptance and signature, after acceptable trench has been completed across the property. When signed by authorized representatives for both parties, this record will form the basis for calculating the compensation due to the Contractor for trenching in solid rock.

All areas to be considered as loose rock requiring removal by backhoe must be authorized by the Qualified Individual at the time the trench is being dug. No other areas will be considered as loose rock excavation. This is also applicable to the Swartklip Boulder Buster.

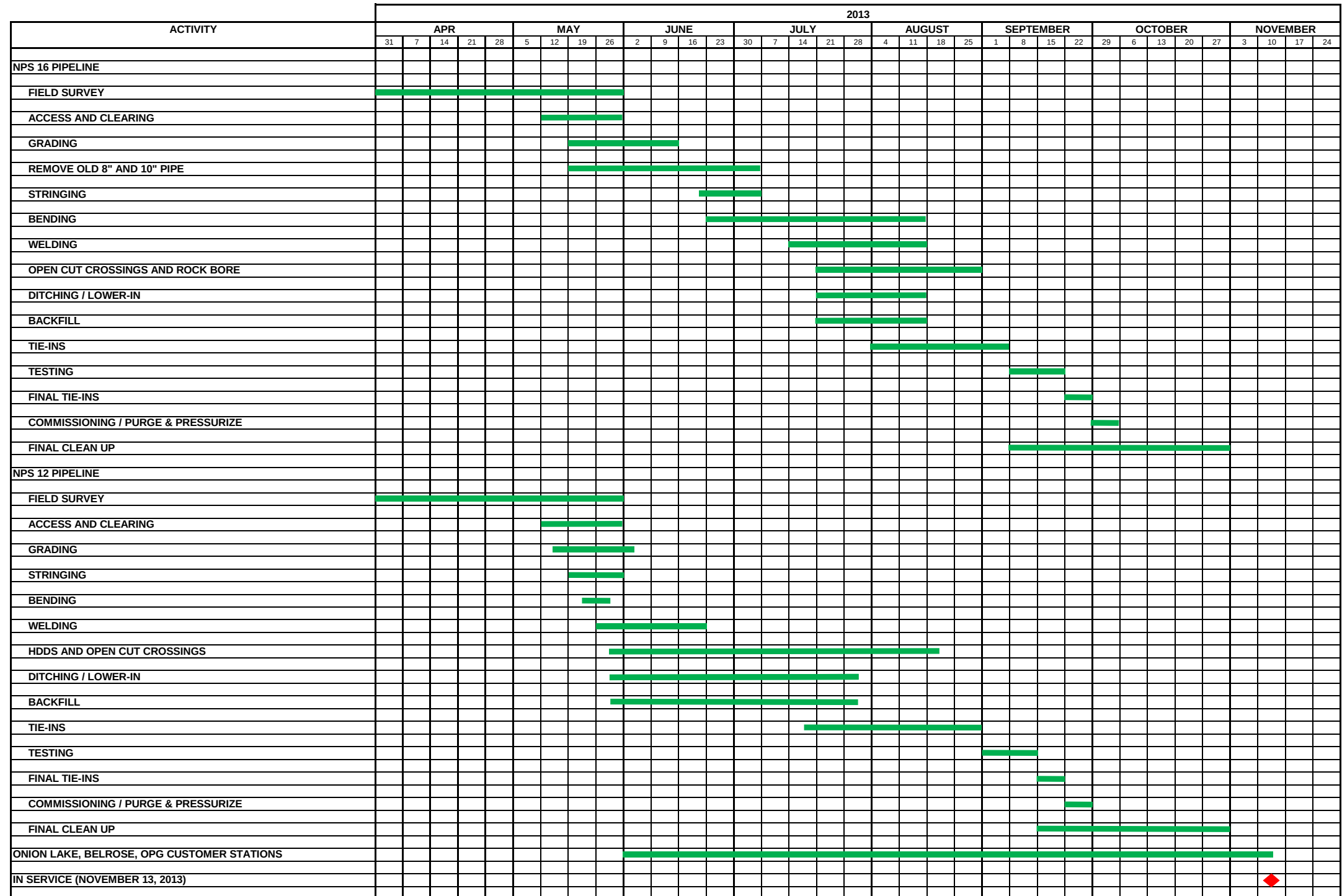
3.10.7 Basis of Payment

Solid rock excavation will be paid for at the unit price per linear metre as covered in Item 18 (a) (b) or (c) of the Schedule of Unit Prices. Loose shale rock that must be removed by backhoe will be paid for at the price per linear metre as given in item 18 (d), or (e) but will not include rock already paid for in item 18 (a), (b), or (c). Earth or sand padding in bottom of trench salvaged from spoil and disposal of rock spoils, will be considered as part of the cost of rock excavation.

Thunder Bay OPG Proposed Construction Schedule

EB-2012-0226/0227

Schedule 11



THUNDER BAY GENERATING STATION: NATURAL GAS PIPELINE PROJECT**DESIGN AND PIPE SPECIFICATIONS****Design Specifications: NPS 16**

Class Location	-	Class 2
Design Factor	-	0.8
Location Factor (General)	-	0.900
Location Factor (Roads)	-	0.625
Maximum Design Pressure	-	6895 kPa
Maximum Operating Pressure	-	6895 kPa
Test Medium	-	Water
Test Pressure	-	9653 kPa
Valves/Fittings	-	PN 100
Minimum Depth of Cover	-	0.9 m

Pipe Specifications:

Size	-	NPS-16
Wall Thickness	-	7.1 mm
Grade	-	414 MPa
Type	-	Electric Resistance Weld
Description	-	C.S.A. Standard Z245.1-02
Category	-	Cat. II, M5C
Coating	-	Fusion Bond Epoxy/Yellow Jacket
% SMYS	-	48%

Design Specifications: NPS 12

Class Location	-	Class 2
Design Factor	-	0.8
Location Factor (General)	-	0.9
Location Factor (Roads)	-	0.625
Maximum Design Pressure	-	3450 kPa
Maximum Operating Pressure	-	3450 kPa
Test Medium	-	Water
Test Pressure	-	4827 kPa
Valves/Fittings	-	PN 100
Minimum Depth of Cover	-	0.9 m

Pipe Specifications:

Size	-	NPS-12
Wall Thickness	-	6.4 mm
Grade	-	359 MPa
Type	-	Electric Resistance Weld
Description	-	C.S.A. Standard Z245.1-02
Category	-	Cat. II, M5C
Coating	-	Fusion Bond Epoxy/Yellow Jacket
% SMYS	-	24%

ENVIRONMENTAL REPORT

OPCC Review Summary

Thunder Bay Generating Station Pipeline Project

AGENCY	COMMENT	RESPONSE
Bill & Janet Heitanen 1269 Central Ave. Call October 27, 2011	Did not receive direct correspondence regarding the Project during the Environmental Report planning phase and requested that Union Gas hold a meeting for landowners in the Cambridge St. / Central Ave area.	Union Gas held a public meeting with the residents of the Cambridge St. / Central Ave. area on December 7, 2011. A public meeting summary was forwarded to all landowners who received an invitation to the meeting on February 1, 2012.
Rachel Hepburn Central Ave. Call October 27, 2011	Did not receive direct correspondence regarding the Project during the Environmental Report planning phase. Concerns with construction on activities on her property and with recent upgrades made to the property and potential impacts.	Union Gas held a public meeting with the residents of the Cambridge St. / Central Ave. area on December 7, 2011. A public meeting summary was forwarded to all landowners who received an invitation to the meeting on February 1, 2012.
Hydro One Email dated October 28, 2011	Able to identify lands which will involve easements and ownership. Proposed installations within the road allowance will still require Hydro One technical approvals. Forward drawings for the lands affecting Hydro One facilities once prepared.	Response by email date November 1, 2011. Drawings will be forwarded once completed.
Lakehead Region Conservation Authority Letter dated November 8, 2011	Prior permission from the Authority Board will be required to conduct any work on Authority owned property. Any development within the Regulated Area may require a permit under the Development Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation. An Environmental Impact Statement may be required for any work within the Williams Bog Provincially Significant Wetland (PSW) or the Neebing Marsh PSW.	Not Required

	Route D has been selected and is the preferred route from the Authority's perspective in regards to impacts to the Neebing-McIntyre Floodway. Be advised that maintenance dredging will be occurring between Island Drive and Lake Superior on the Neebing-McIntyre floodway during 2012 and 2013 construction season. It is requested that Union Gas consult with the Authority to ensure work on the floodway is not compromised.	
Canadian National Railway Email dated December 1, 2011	Request that the following information be provided: 1. Actual location of crossing under CN tracks. 2. A description on how the crossing will be constructed. 3. How CN will be protected, vis a vis subsidence, etc. 4. Timing of construction.	Response by email dated December 1, 2011. Union is currently in the planning stages and will work to provide the necessary information required by CN. Your comments have been forwarded to Union's Permitting Coordinator and Construction Manager. Construction is proposed for summer 2013 contingent on OEB approval.
City of Thunder Bay Letter dated December 8, 2011	Construction of the pipeline will have environmental impacts along the municipal right-of-way. City Administration reserves comments subject to our review of the detailed plans. Specifically on the location of the pipeline within the municipal right-of-way, proximity to other utilities, location of pipeline in relation to other municipal infrastructure and site specific issues such as restoration and construction activities. Through the process of municipal permit applications such as utility location permits and road closure permits and our review of detailed plans, staff will be able	Union continues to meet and work with the City of Thunder Bay regarding the Project. A public meeting summary was also forwarded to the City of Thunder Bay February 1, 2012.

	to comment on the above. Would like to bring your attention to project coordination and the City's plan in 2012 to reconstruct the intersection of Golf links Road and the Harbour Expressway. We understand there are issues with the preferred route with the Central/Vimy residential area. We reiterate our preference to use the adjacent Ontario Hydro corridor or extend the route along Cambridge Street to Highway 11/17. Following the confirmation of the preferred route, Administration will be presenting the report to City Council.	
Ministry of the Environment Letter dated January 6, 2012	With respect to the "Environmental Guidelines please indicate the correct edition used. The ER should indicate the certain activities "will" be undertaken. It would be beneficial to include additional information on the Environmental Inspector. Where excavation requires the use of blasting, noise and vibration levels should be regulated in accordance with the MOE Publication NPC-119 "Blasting". Permits to Take Water (PTTW), issued under section 34 of the Ontario Water Resources Act, are require for any taking, dewatering, storage or diversion of water in excess of 50,000 litres per day. The report recognizes the need for a PTTW for hydrostatic testing when volumes exceed 50,000 litres per day, but does not discuss the need for a PTTW for other construction activities.	Response by letter date January 18, 2012 The correct version of the "Environmental Guidelines" was the 6th Edition. Union agrees with the statements made and has accepted the recommendations found in the Environmental Report prepared by Stantec. Your comments regarding the environmental inspector have been noted for future reports. Union is aware and will inform its blasting contractor of MOE Publication NPC-119 "Blasting".

Ministry of Tourism, Culture and Sport Letter received January 6, 2012	Several wording suggestion were provided. MTCS has the following recommendation to better address heritage: All archaeological assessments should be completed and reports reviewed and commented on by MTCS, prior to any ground disturbance of areas identified with archaeological potential, and preferably before finalization of the preferred route.	Response by letter date January 16, 2012 Wording suggestions have been noted and will be utilized in future environmental reports. Union intends to submit a combined Stage 1 and 2 archaeological assessment prior to construction.
Ministry of Natural Resources Letter received January 6, 2012	The District has concerns regarding the lack of a comprehensive route evaluation and ultimately the selection of a final preferred route. The preferred route crosses through a provincially significant wetland (Williams Bog) and adjacent to a provincially significant coastal wetland (Neebing Marsh). The Provincial Policy Statement (PPS) states that site alterations shall not be permitted in these areas unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions. The decision of the preferred route seems premature. Little rational as to why the route was chosen. Williams Bog has already been compromised considerably and should not be examined in isolation. With regards to Neebing Marsh activities such as grading, excavation and placement of fill would be inconsistent with the PPS. The proponent should be prepared to alter the chosen route if necessary based on the results of the Environmental Impact	Response by letter date February 10, 2012. The environmental report for the Thunder Bay Pipeline meets the intent of the Ontario Energy Board's "Environmental Guidelines". Environmental Information was analyzed at an appropriate level of detail to make informed routing decisions. Data collection for this project focused on what was needed in order to carry out the planning process in an efficient, effective and comprehensive manner. The preferred route in the Cambridge St. /Central Ave. area was selected based on the limited extent of wetland crossing (Williams Bog) compared to other alternatives and the ability to largely avoid residential lands. All efforts during planning and subsequent detailed engineering will be undertaken to minimize impacts to Williams Bog. With respect to the Neebing Marsh PSW, as a result of detailed design Union Gas proposes to locate the pipeline on the west side of 110th Avenue, thereby avoiding any impacts to the PSW.

	Statement proposed for the Williams Bog.	
Infrastructure Ontario Letter dated January 19, 2012	The information in this letter is to guide proponents of EA projects regarding the incorporation of Infrastructure Ontario's EA requirements. The incorporation of these requirements will allow IO to satisfy its legislative requirement. Our comments are intended to ensure that outstanding issues of environmental, socio-economic and cultural heritage concerns will comply with regulations and will be appropriately addressed prior to the commencement of this undertaking.	Union proposes to work with Infrastructure Ontario to ensure all its requirements are met prior to the commencement of the project.

Schmidt, Doug

From: Weishar, Merv
Sent: November 1, 2011 8:57 PM
To: Roman.Dorfman@HydroOne.com
Cc: Schmidt, Doug
Subject: RE: Thunder Bay-OPG Hydro corridor drawings (file Thunder Bay 636.1-3571 & 635.06-3577)

Thanks for the email Roman,

Once the drawings are complete, I will forward onto you for further review.

Regards,

Merv Weishar, SR/WA Senior Lands Agent,

Union Gas Limited P.O. Box 2001, 50 Keil Drive North, Chatham ON N7M 5M1

1-800-571-8446 / (519) 436-4600 Ext 2644 / Cell (519) 350-6452 or (877) 293 6216 / Fax (519) 436-5353 mweishar@uniongas.com

From: Roman.Dorfman@HydroOne.com [<mailto:Roman.Dorfman@HydroOne.com>]
Sent: October 28, 2011 2:04 PM
To: Weishar, Merv
Cc: Schmidt, Doug
Subject: FW: Thunder Bay-OPG Hydro corridor drawings (file Thunder Bay 636.1-3571 & 635.06-3577)

Merv, I received the letter attached advising Hydro One that a route has now been selected for the TBGS Pipeline Project.

I was able to identify lands which will involve our easements and ownership (Bill 58 and possibly Hydro One owned lands) from the map submitted.

Some of the proposed installations are proposed within road allowance but will still require Hydro One technical approvals.

Once all the drawings for the lands affecting our facilities are prepared, please send 4-copies for circulation to our stakeholders and IO.

Thanks

Roman Dorfman
Sr. Real Estate Coordinator
Facilities and Real Estate
Hydro One Networks Inc.
185 Clegg Road
P.O. Box 4300
Markham, Ont.
L6G 1B7
tel. 905-946-6243
cel. 416-433-8777
fax 905-946-6242
roman.dorfman@hydroone.com

From: Thomas, Matt [<mailto:MPThomas@uniongas.com>]
Sent: Tuesday, July 26, 2011 11:10 AM
To: DORFMAN Roman
Cc: Weishar, Merv; LIU Julie
Subject: RE: Thunder Bay-OPG Hydro corridor drawings

Thanks Roman.

Would you like these sent to the address you have listed below? What is required for the Engineering and Review fee?

Thanks,

Matthew P. Thomas

Electrical and Controls EIT



Phone: 519-436-4600 x2767

Mobile: 519-365-3781

Fax: 519-436-5292

Toll: 800-571-8446, x2767

From: Roman.Dorfman@HydroOne.com [<mailto:Roman.Dorfman@HydroOne.com>]

Sent: July 26, 2011 9:37 AM

To: Thomas, Matt

Cc: Weishar, Merv; julie.liu@HydroOne.com

Subject: RE: Thunder Bay-OPG Hydro corridor drawings

Matt, please send 4-copies (paper copies) of all the drawings so that we may pass them on to our stakeholders for review along with the required Engineering and Review Fee.

Thanks

Roman Dorfman

Sr. Real Estate Coordinator

Facilities and Real Estate

Hydro One Networks Inc.

185 Clegg Road

P.O. Box 4300

Markham, Ont.

L6G 1B7

tel. 905-946-6243

cell. 416-433-8777

fax 905-946-6242

roman.dorfman@hydroone.com

From: Thomas, Matt [<mailto:MPThomas@uniongas.com>]

Sent: Tuesday, July 26, 2011 7:51 AM

To: DORFMAN Roman

Subject: Thunder Bay-OPG Hydro corridor drawings

Roman,

Please find the attached alignment drawings with key plan.

Let me know if you have any questions.

Matthew P. Thomas

From: Novosad, Nick
Sent: July 25, 2011 10:10 AM
To: Thomas, Matt
Cc: Adams, George; Dubeau, Chuck; Fantuz, Peter
Subject: Thunder Bay-OPG Hydro corridor drawings

Attached are the 12 drawings where our pipeline encroaches the Hydro corridor. Please advise if any changes need to be made.

Thank you,

Nicholaus Novosad

Union Gas Limited | A Spectra Energy Company
50 Keil Drive North
P.O. Box 2001
Chatham, ON N7M 5M1

uniongas.com

nnovosad@uniongas.com

519 436-4600 ext 2884
800 571-8446 ext 2884 toll free

Union Gas. For the energy.™

LAKEHEAD REGION CONSERVATION AUTHORITY

130 CONSERVATION ROAD, P.O. BOX 10427, THUNDER BAY, ON P7B 6T8
 Telephone (807) 344-5857 Fax (807)345-9156
 E-mail: info@lakeheadca.com Website: www.lakeheadca.com



November 8, 2011

Via Email: dschmidt@uniongas.com

Mr. Doug Schmidt
 Principal Environmental Planner
 Union Gas Limited
 50 Keil Drive North
 Chatham, ON
 N7M 5M1

Dear Mr. Schmidt:

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project
 Lakehead Region Conservation Authority comments related to Environmental
 Report

Lakehead Region Conservation Authority (LRCA) received a copy of the Thunder Bay Generating Station Pipeline Project Environmental Report, dated October 2011 prepared by Stantec Consulting Ltd. for Union Gas Limited. Staff have reviewed the report and provide the following comments as both a property owner and the administrator of the *Conservation Authorities Act* within the LRCA Area of Jurisdiction.

The northern portion of the pipeline route is within the unorganized Township of Gorham, which is outside the Area of Jurisdiction of the Authority; however, intersects Wishart Forest which is owned by the LRCA. As the route will follow the existing right-of-way in place for the present pipeline there are no concerns for this portion of the route; however, we request to be informed of any work (i.e. staging areas, tree clearing, etc.) on Authority owned property outside the right-of-way that would be required to facilitate the project. Prior permission from the Authority Board will be required to conduct any work on Authority owned property. As noted in the Environmental Report, the LRCA encourages the recommended consultation regarding impacts to Authority owned properties that may be affected by this project.

The City of Thunder Bay is one of the Authority's member municipalities; therefore, any development within the Regulated Area may require a permit under the Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation. As noted in the Environmental Report an Environmental Impact Statement may be required for any work within the Williams Bog Provincially Significant Wetland (PSW)

...2

Union Gas Pipeline Project
Environmental Report

November 9, 2011
Page 2 of 2

or the Neebing Marsh (PSW) which may include a re-assessment of the wetland boundary by a qualified professional to confirm the existence/non-existence of the actual PSW on the proposed work site. In addition, watercourse crossings within the Area of Jurisdiction of the LRCA may require a permit. Also, as detailed in our Level II Fish Habitat Agreement with the Department of Fisheries and Oceans (DFO) the Lakehead Region Conservation Authority evaluates proposed works as to their impact on fish habitat within our Area of Jurisdiction.

It is noted that Route D has been selected as the preferred route. As noted previously, this was the preferred route from the Authority's perspective in regards to impacts to the Neebing-McIntyre Floodway.

Be advised that maintenance dredging will be occurring between Island Drive and Lake Superior on the Neebing-McIntyre Floodway during both the 2012 and 2013 construction seasons (subject to funding). It is requested that Union Gas consult with the Authority regarding any planned work which may result in road closures or restrict access to the Floodway to ensure the completion of this necessary maintenance is not compromised.

If further information is required, please contact Tammy Cook, Watershed Manager, at the Authority office.

Yours truly,

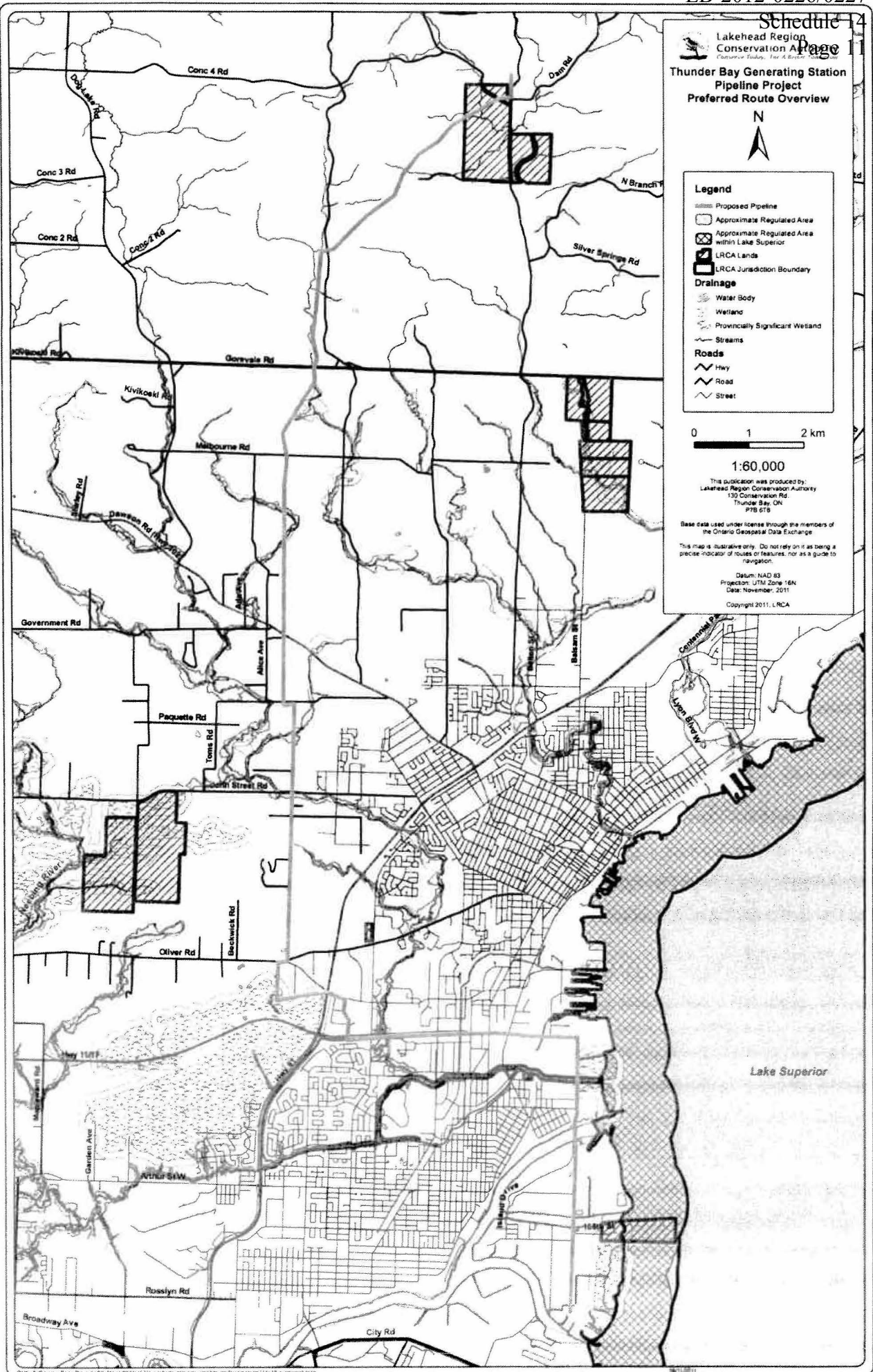


Mervi Henttonen
General Manager/Secretary-Treasurer

/tjc

cc: Pat Mauro, City of Thunder Bay

Enclosure



Schmidt, Doug

From: Schmidt, Doug
Sent: December 1, 2011 2:25 PM
To: 'harri.liivamagi@cn.ca'
Cc: tim.mccrindle@cn.ca; David.Nichols@cn.ca; Clarence.Whitehill@cn.ca; Ed.Holbik@cn.ca; Weishar, Merv; O'Connor, Joel; Adams, George
Subject: RE: Union Gas Proposed Thunder Bay Generating Station Pipeline Project.

Mr. Liivamägi

Thank you for your response.

As discussed this afternoon, Union is currently in the planning stages of this project and will work to provide the necessary information required by CN. I have forwarded your comments to Mr. Joel O'Connor (Permitting Coordinator) and to our Construction Manager (Mr. George Adams). Please note construction is scheduled for the summer of 2013 and is contingent upon approval from the Ontario Energy Board.

Thank you

Doug Schmidt

Principal Environmental Planner

Environmental Planning

Ph. 1 866 949-1595, Ext. 76954

Cell 519 365-0723

Email dschmidt@uniongas.com

One of Canada's Top 100 Employers



From: harri.liivamagi@cn.ca [mailto:harri.liivamagi@cn.ca]
Sent: December 1, 2011 1:06 PM
To: Schmidt, Doug
Cc: tim.mccrindle@cn.ca; David.Nichols@cn.ca; Clarence.Whitehill@cn.ca; Ed.Holbik@cn.ca; Weishar, Merv
Subject: Union Gas Proposed Thunder Bay Generating Station Pipeline Project.

Hello Mr. Schmidt,

Thank you for sending along the environmental report that was done by Stantec. The report was most interesting. However, could you provide CN with the following information?

- 1 - The actual location of the crossing under the CN track. Site photos would be most useful.
- 2 - A description of how that crossing will be constructed.
- 3 - How CN will be protected, vis a vis subsidence, etc.
- 4 - Timing of construction.

Kindly be advised that Union Gas will need to apply through CN's Tim McCrindle using the instructions on the following website.

<http://www.cn.ca/en/corporate-citizenship-public-issues-pipeline-wireline.htm>

When approved by Tim, CN Real Estate will work with him on the agreements.

Harri Liivamägi, P. Eng., CRM
Environmental Engineer
CN
P.O. Box 1620 Station Main
821 Lagimodiere Boulevard
Winnipeg, Manitoba
Canada R3C 2Z6

office 204-231-7749

fax 204-231-7564

mobile 204-782-5531

Email: Harri.Liivamagi@cn.ca

Please consider the environment before printing...

ENGINEERING DIVISION
Victoriaville Civic Centre
111 Syndicate Avenue, South
Thunder Bay, ON P7C 5K4

**TRANSPORTATION & WORKS
DEPARTMENT**

Tel: (807) 625-2266/2267
Fax (807) 625-3588

File: 031-78

December 8, 2011

Mr. Doug Schmidt
Union Gas Limited
50 Keil Drive North
Chatham, ON
N7M 5M1

Attention: Mr. Doug Schmidt

RE: Union Gas Limited - Thunder Bay Generating Station Pipeline Project

City Administration has reviewed the Environmental Report (ER) and the preferred pipeline route within the municipal road allowance.

Construction of this pipeline will have environmental impacts along the municipal right-of-way. Although the ER proposes to mitigate these impacts, City Administration reserves comments subject to our review of the detailed plans. More specifically we would like to comment on the location of the pipeline within the municipal right-of-way; proximity to other utilities; location of pipeline in relation to other municipal infrastructure; and site specific issues such as restoration and construction activities.

Through the process of municipal permit applications such as utility location permits and road closure permits and our review of detailed plans, our staff will be able to comment on the above concerns.

More specifically, we would like to bring your attention to project coordination and the City's plan in 2012 to reconstruct the intersection of Golf Links Road and the Harbour Expressway. We would be glad to discuss integrating the pipeline component of your project with our plans.

We understand there are issues outstanding with the preferred route within the Central/Vimy residential area. Again, we reiterate our preference to use the adjacent Ontario Hydro corridor or extend the route along Cambridge Street to Highway 11/17.

Following your confirmation of the preferred route, Administration will be presenting a report to City Council for information in the new year.

Yours truly,



Pat Mauro, M.A.Sc., P.Eng

c.c. Mark Smith, General Manager – Development Services
Darrell Matson, General Manager – Infrastructure & Operations
Leslie McEachern, Manager – Planning Division
Joel DePeuter, Manager – Realty Services
Brad Adams, Manager – Roads Division
Cory Halvorsen, Supervisor – Design and Field Engineering



uniongas

A Spectra Energy Company

January 18, 2012

Ms. Tina Webb
Environmental Assessment Coordinator/Environmental Planner
Ministry of the Environment, Northern Region
199 Larch Street
Sudbury, ON
P3E 5P9

RE: Thunder Bay Generating Station Pipeline Project – Environmental Report

Dear Ms. Webb;

Thank you for your review of the October 2011 Thunder Bay Generating Station Pipeline Project Environmental Report (ER).

With respect to your letter forwarded by email dated January 6, 2012 Union provides the following:

General Comments:

The correct edition of the “Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario” is the 6th Edition.

Union acknowledges your statements in the remainder of this section and has accepted the recommendations found in the Environmental Report prepared by Stantec Consulting.

Mitigation, Restoration and Monitoring:

Your comment with respect to the Environmental Inspector has been noted for future Environmental Reports. Also, the Environmental Inspector will be responsible for the mitigation measures that you have listed, all mitigation measures identified in the ER, permitting conditions and the Ontario Energy Board’s Conditions of Approval.

Blasting:

Union is aware of and will inform its blasting contractor that blasting, noise and vibration levels should be regulated in accordance with the MOE Publication NPC-119 “Blasting”.

Groundwater:

Union will implement its standard water well monitoring program for the Thunder Bay Generating Station Pipeline Project. This program includes retaining the services of an independent hydrogeologist to review local hydrogeological conditions and gather existing well information from MOE records along the pipeline route. Based on this review, the hydrogeologist will recommend a well monitoring program.

Also, the hydrogeologist will remain on retainer throughout and following construction to advise on mitigation should any well problems or concerns arise due to construction.

This work will be completed prior to construction but not until the project is approved by the Ontario Energy Board.

Permit To Take Water

Prior to construction and once details are confirmed, Union will be making application to the MOE for all construction activities along the pipeline route for volumes of water that exceed 50,000 litres per day.

Please do not hesitate to contact me if you have any further questions.

Sincerely,

UNION GAS LIMITED

A handwritten signature in black ink, appearing to read "Doug Schmidt", with a long horizontal flourish extending to the right.

D.F. (Doug) Schmidt
Principal Environmental Planner
1-866-949-1595, Ext. 76954

**Ontario**

Ministry of the Environment
199 Larch Street
Suite 1201
Sudbury, ON P3E 5P9

Ministère de l'Environnement
199 rue Larch
Bureau 1201
Sudbury, ON P3E 5P9

Fax: (705) 564-4180
Direct Line: (705) 564-3205

Ms. Zora Crnojacki, Chairman
Ontario Pipeline Coordination Committee, Ontario Energy Board
2300 Yonge Street,
26th floor, Suite 2601
Toronto, ON M4P 1E4

Dear Ms. Crnojacki,

Re: Environmental Report – Union Gas Limited – Thunder Bay Generation Station Pipeline Project

Thank-you for your letter dated October 17, 2011 and the attached Environmental Study Report prepared by Stantec Consulting Ltd. dated October 2011.

It is our understanding that this project involves the construction of a pipeline to supply natural gas to the OPG Thunder Bay Generating Station. The approximate length of the proposed pipeline is 32 km (19 km of 16 inch pipeline and 13 km of 12 inch pipeline). The proposed pipeline will involve:

- the lift and lay replacement of an existing 8 inch (203 mm) diameter steel pipeline with a new 16 inch (406 mm) diameter steel pipeline from TransCanada Pipeline Limited's (TCPL) Thunder Bay Meter Station to Union Gas Onion Lake Station;
- the lift and lay of an existing 10 inch (254 mm) diameter steel pipeline with a new 16 inch (406 mm) diameter steel pipeline from Union Gas's Onion Lake Station to their Belrose Station; and,
- a new 12 inch (324 mm) diameter steel pipeline from Union Gas's Belrose Station to the OPG Thunder Bay Generating Station located on Mission Island.

The Ministry of the Environment offers the following comments for your consideration.

General Comments:

On page E.1 of the Executive Summary, it indicates that the "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 5th Edition* (2011)" were utilized. However, on Page 1.1, it indicates that the "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 6th Edition* (2011)" were used. Please indicate the correct edition utilized.

There are multiple instances in the document where "should" is used to describe activities that may be completed prior to construction. It should be noted that this implies that certain activities may be undertaken. In order to meet the requirements of the Ontario Energy Board (OEB) Guideline, where activities are required to be completed or the proponent is responsible for mitigation, the ER should indicate that certain activities "will" be undertaken.

Example: Page 5.9 under Groundwater:

"Should well water or the well itself be damaged from pipeline installation/operations, a potable water supply ~~should~~ **will** be provided and the water well ~~should~~ **will** be restored or replaced as ~~may be required~~".

Page 5.1.3 "Extractive Resources" it indicates that the Sustainable Forest license holder has not yet been consulted. Section 3.2 "Affected Parties" of the *Environmental Guidelines for Locating, Constructing and Operating Hydrocarbon Pipelines in Ontario, 2011* states that "In areas involving Crown Land, forms of tenure such as trapline licenses, Sustainable Forestry Licenses and permits or leases for commercial uses such as tourism camps, should be noted. For the purposes of these Guidelines, affected tenured persons have the same status as affected Landowners".

Mitigation, Restoration and Monitoring:

The report commits to mitigation and restoration measures in accordance with the Ontario Energy Board *Environmental Guidelines for Locating, Constructing and Operating Hydrocarbon Pipelines in Ontario, 2011*, the *Union Gas Environmental Management Manual*, the *Union Gas Specification 3.10: Specification for Rock Excavation*, and the *Union Gas Erosion and Sedimentation Control Standards*. In addition, the report states that an Environmental Inspector should be assigned to the project throughout the construction period to ensure that impacts are mitigated and restoration measures are carried out. It would be beneficial to include additional information on the Environmental Inspector.

The report commits to mitigation measures such as:

- ensuring a Blasting Consultant is retained to monitor impacts
- implementing erosion control measures
- applying dust suppressants
- implementing sedimentation control to protect water quality
- re-vegetating cleared areas
- containing excavated materials to ensure sediment does not enter watercourse
- minimizing clearing activities and only clearing during dry soil conditions to minimize disturbance to vegetation and terrain
- proper storing of hazardous materials, chemicals fuels and lubricating oils
- undertaking soil sampling for contamination along the easement prior to trenching
- implementing a soil monitoring/remediation plan if contaminated soils are found

Blasting:

It was noted in section 5.1.1 "Bedrock Geology" that there is a potential for blasting to be implemented. Where excavation requires the use of blasting, noise and vibration levels should be regulated in accordance with the MOE Publication NPC-119 "Blasting".

Groundwater:

Section 4.3.11 *Water Wells and Hydrology* from the *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario*, it states that "A survey of water wells along, and adjacent to, the preferred route or site must be conducted. The MOE Regional Office should be contacted to obtain water well records and relevant associated data. Groundwater hydrology may prove to be sensitive to pipeline excavation and should be described in relation to the wells". There has been no indication in the ER or Appendices that this information has been obtained from the MOE. Static water levels and depths for wells that are accessible for measurement have also not been recorded.

The Guideline also indicates that monitoring of the water wells should be carried out where blasting, dewatering or work below the water table is required. The depth and locations of the 72 wells in proximity to the proposed line has not been clearly identified. Where required, ground water monitoring programs should be discussed with the MOE.

Permit To Take Water

Permits to Take Water (PTTW), issued under section 34 of the Ontario Water Resources Act, are required for any taking, dewatering, storage or diversion of water in excess of 50,000 litres per day. Activities which may require PTTW include hydrostatic testing, dewatering behind a coffer dam, diversion of stream flow to allow work in the dry at a water crossing, construction dewatering, and use of water to make up a drilling slurry.

The report recognizes the need for a PTTW for hydrostatic testing when volumes exceed 50,000 litres per day, but does not discuss the need for a PTTW for other construction activities such as during water crossings. For example, the report states that 9 water crossings are proposed to be constructed using a dam and pump technique which could result in diversion or taking of water.

This concludes our comments at this time. Please feel free to contact me if you would like to discuss. I can be reached at 705-564-3205 or Tina.Webb@ontario.ca.

Regards,

Tina Webb
Environmental Assessment Coordinator/Environmental Planner
Ministry of the Environment
Northern Region

cc.: Sam Shippam, Environmental Officer
Wim Smits, Environmental Officer



January 16, 2012

Ms. Penny Young
Heritage Planner, Culture Services Unit
Ministry of Tourism, Culture and Sport
401 Bay Street, Suite 1700
Toronto, ON
M7A 0A7

Re: Thunder Bay Generating Station Pipeline Project

Dear Ms. Young;

Thank you for your review of the October 2011 Thunder Bay Generating Station Pipeline Project Environmental Report.

Please note that all of your wording suggestions have been noted and will be utilized in future environmental reports. Also, please note that we intend to submit a combined Stage 1 and Stage 2 report for your review and comment prior to project construction.

Please do not hesitate to contact me if you have any further questions regarding the archaeological assessments for this project.

Sincerely,

UNION GAS LIMITED

D.F. (Doug) Schmidt
Principal Environmental Planner
1-866-949-1595, Ext. 76954

**Ministry of Tourism, Culture and Sport**

Culture Services Unit
Programs and Services Branch
401 Bay Street, Suite 1700
Toronto ON M7A 0A7
Tel. 416 314-7147
Fax: 416 314-7175

Ministère du Tourisme et de la Culture

Unité des services culturels
Direction des programmes et des services
401, rue Bay, Bureau 1700
Toronto ON M7A 0A7
Tél. : 416 314-7147
Télec. : 416 314-7175

January 6, 2012 (EMAIL ONLY)

Doug Schmidt
Principal Environmental Planner
Union Gas
PO Box 2001, 50 Keil Dr. N.
Chatham, ON N7M 5M1

Project: Thunder Bay Generating Station Pipeline Project

Dear Mr. Schmidt,

The Ministry of Tourism, Culture and Sport (MTCS) received the Environmental Report for the above-mentioned project.

With respect to this undertaking, MTCS has an interest in conserving, protecting and preserving Ontario's heritage. MTCS would, therefore, be interested in remaining on the circulation list and being informed of the project as it proceeds through the next phases of the Ontario Energy Board's (OEB) application process.

The Environmental Report (ER) outlines the process used to identify and evaluate route alternatives for the proposed pipeline. The ER considers the environmental and socio-economic setting associated with the pipeline, and the potential environmental and socio-economic effects of the proposed pipeline.

Included in the Appendices there is an archaeological assessment report that was conducted in association with this project.

We have reviewed the Environmental Report (ER) and have the following comments.

Throughout the report, references to the "Ministry of Tourism and Culture" should be changed to "Ministry of Tourism, Culture and Sport" and then can be abbreviated to "MTCS".

Section 5.4.9 is named "Archaeological and Heritage Resources". We recommend changing this title and all sections relating to it (such as Table 5.2) to *Cultural Heritage Resources* as per the Ontario Heritage Act definition.

The Stage I archaeological assessment report is yet to be submitted to the Ministry of Tourism, Culture and Sport for review and comment. The first sentence in the sub-section Mitigation and Protection measures is recommended to be changed to state

"Prior to ground disturbance of areas identified with archaeological potential in the Stage I report, that is pending a MTCS review, a Stage II archaeological assessment, and if necessary, any further stages of archaeological assessment will be undertaken and submitted to the Ministry of Tourism, Culture and Sport." In the next sentence in the section "survey" is recommended to be changed to "assessment" and in the subsequent sentence, "acceptance" to be changed to "review and comment".

In Table 5.2: Summary of Potential Effects and Recommended Mitigation and Protective Measures, under the row for heritage, entitled "Archaeological and Heritage Resources" (recommended for change), and in the column entitled "Mitigation and Protective Measures" for the second bullet MTCS recommends changing it to state "Union Gas will seek Ministry review and comment on the Stage II report prior to construction". For the third bullet similarly it is recommended that it states "Recommendation for mitigation/protection, outlined Stage II, and, if necessary, any further stages of archaeological assessment will be completed, to the satisfaction of the Ministry of Tourism, Culture and Sport, prior to ground disturbance in areas identified with archaeological potential in the Stage I report, pending MTCS review."

In summary, MTCS has the following recommendation to better address heritage:

- a. All archaeological assessments should be completed and reports reviewed and commented on by MTCS, prior to any ground disturbance of areas identified with archaeological potential, and preferably before finalization of the preferred route.

Please do not hesitate to contact MTCS if you have any questions regarding the above.

Sincerely yours,

Penny Young
Heritage Planner
Culture Services Unit
t. 416-212-4019
f. 416-212-1802

copied: Zora Crnojacki, Coordinator, Ontario Pipeline Coordination Committee, Ontario Energy Board
Andrew Hinshelwood, Archaeology Review Officer, Ministry of Tourism, Culture and Sport



Stantec Consulting Ltd.
70 Southgate Dr, Suite 1
Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

Stantec

February 10, 2012

File: 160960657

Mr. Jeff Black
Planning Biologist, Thunder Bay District
Ministry of Natural Resources
Suite B001, 435 James Street South
Thunder Bay, ON P7E 6S8

Reference: Thunder Bay Generating Station Pipeline Project

Dear Mr. Black;

Thank you for your review of the October 2011 Thunder Bay Generating Station Pipeline Project Environmental Report. I am pleased to provide a response to your letter and address the concerns you have identified.

The environmental report for the Thunder Bay Pipeline meets the intent of the Ontario Energy Board's "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011) (OEB Guidelines)". Stantec has relied on our interpretation of the OEB Guidelines, which has been applied on numerous preceding reports, as well extensive experience in generating and evaluating and determining environmentally acceptable pipeline routes. The route selection process for this project has been open and transparent, resulting in the identification of an environmentally preferred route.

For the proposed Thunder Bay Pipeline, environmental information was collected and analysed at an appropriate level of detail to make informed routing decisions. As the environmental report progressed, the level of detail analysed to support decisions graduated from a macro level to define the study area to a micro level to develop site specific mitigation measures. For example: a greater level of detail is considered when developing mitigation measures; a moderate level of detail is required to evaluate alternate routes; and the least level of detail is required to generate alternate routes.

Throughout the route evaluation process decision-making was phased, narrowing progressively to a selection of the preferred alternative. This resulted in a process where alternatives were eliminated from consideration at different points in the planning process through the evaluation of appropriately scaled information. Data collection for this project focused on what was needed in order to carry out the planning process in an efficient, effective and comprehensive manner. The level of detail of the analysis increased as planning progressed from the comparative evaluation of alternatives, to the analysis of the preferred route. Field studies are completed after determination of the final route. This comprehensive data will aid in the development of mitigative and protective measures. The information collected during field studies is too detailed and cumbersome to facilitate a clear, transparent and replicable route evaluation.

The route evaluation process for this project involved trade-offs between potential impacts to environmental features (such as utilizing existing easements through the Williams Bog PSW) and socio-economic features (such as proximity to residential properties). The Preferred Pipeline Route in the Cambridge Street/Central Avenue area was selected based on the limited extent of wetland crossing compared to other alternatives and the ability to largely avoid residential lands. Public feedback on the Preferred Pipeline Route has vocally opposed the pipeline near residential properties, and the City of Thunder Bay's preference is to utilize the existing electrical transmission corridor or to cut through the Williams Bog PSW to Highway 11/17.

Stantec

February 10, 2012

Page 2 of 2

In the vicinity of Cambridge Street/Central Ave the environmentally preferred pipeline route overlaps existing utility easements between Cambridge Street and the Thunder Bay Expressway. The principle of overlapping existing utility easements to minimize or avoid impact to sensitive features is also consistent with the OEB Guidelines.

The detailed pipeline route may require temporary easement in the Williams Bog PSW during construction. The use of temporary easement within the Williams Bog PSW will be reduced to the extent practical, and clearing will be avoided and only occur if necessary for construction. Any vegetation removal along the temporary easement within the Williams Bog PSW will form part of a revegetation program.

Union Gas Limited has retained KBM Resources Group to undertake detailed field studies of the Preferred Pipeline Route prior to construction. Union Gas Limited has also retained Allan Harris, the biologist who undertook the revised Williams Bog PSW wetland evaluation, to conduct an Environmental Impact Study (EIS) of the Preferred Pipeline Route within the Williams Bog PSW. Should the detailed field studies and/or EIS determine that negative impacts to the natural features or functions of the Williams Bog PSW will occur as a result of the pipeline installation, and that these negative impacts cannot be mitigated or compensated for, then a re-examination of the Preferred Pipeline Route will be undertaken.

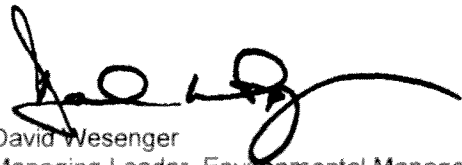
With regards to cumulative impacts, Section 7.3 of the Environmental Report notes that a cumulative effects assessment is undertaken only for residual effects, after mitigation. Given that the pipeline overlaps existing easements, residual effects of the Project are anticipated to be minimal and will be addressed as necessary in the EIS.

All efforts during planning and subsequent detailed engineering will be undertaken to minimize impacts to the Williams Bog PSW. Impacts or alterations to wetland features resulting from construction activities are not anticipated to change the landform or natural vegetative characteristics of the site. The requirements and conditions of the Provincial Policy Statement with respect to wetland function are recognized by Union Gas and Stantec. With respect to the Neebing Marsh PSW, as a result of detailed design Union Gas proposes to locate the pipeline on the west side of 110th Avenue, thereby avoiding any impacts to the PSW.

I trust that the above provides clarification in terms of how the Environmental Report meets the expectations of the OEB Guidelines. If you have any questions regarding the above please do not hesitate to contact me.

Sincerely,

STANTEC CONSULTING LTD.



David Wesenger
Managing Leader, Environmental Management



Thunder Bay District
Ontario Government Building
Suite B001, 435 James Street South
Thunder Bay, ON P7E 6S8

Ministry of
Natural Resources

Ministère des
Richesses naturelles

Tel: (807) 475-1471
Fax: (807) 475-1527

January 6, 2012

Mr. Doug Schmidt
Principal Environmental Planner
Union Gas Limited
50 Keil Drive North
Chatham ON
N7M 5M1

Dear Mr Schmidt;

Thank you for the opportunity to review the October 2011 Thunder Bay Generating Station Pipeline Project Environmental Report. Thunder Bay District OMNR offers the following comments for your consideration.

The District has concerns regarding the lack of a comprehensive route evaluation and ultimately the selection of a final preferred route. We understand that detailed natural heritage field studies were completed for the section of replacement pipeline between the TCPL Thunder Bay Meter Station and the Union Gas Belrose Station. However it appears that similar studies were not conducted for any of the route alternatives including the preferred route for the new section of pipeline between Belrose Station and the Mission Island Generating Station. As stated in the 2011 Ontario Energy Board (OEB) Environmental Guidelines: 'The scope of the analysis is expected to become more refined and site specific, as the planning process proceeds. Initially, the data may be based primarily on secondary sources. Once the alternatives have been identified, more detailed field studies and analyses allow for a more thorough comparison of impacts'. The consideration of natural heritage features in the selection of the preferred route should not be limited to previously documented natural heritage values. There is an expectation that a comparison the impacts of alternative routes on natural heritage values include an assessment of any previously undocumented natural heritage features.

With regards to natural heritage features included in the report, the preferred route crosses through a provincially significant wetland (Williams Bog) and adjacent to a provincially significant coastal wetland (Neebing Marsh) with a laydown area proposed within the wetland. The Ontario Energy Board is required to be consistent with the Provincial Policy Statement (PPS). The PPS states that site alteration shall not be permitted in significant coastal wetlands and shall not be permitted in significant wetlands in the Canadian Shield unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions. We note that the Environmental Report recommends that an Environmental Impact Study be undertaken to determine impacts on these wetlands. In the absence of conducting an EIS for the crossing of Williams Bog, a decision on the preferred route seems premature.

The 2011 Ontario Energy Board (OEB) Environmental Guidelines require route evaluation to follow a set of explicit decision rules and to provide transparency in the reasons why the preferred alternative route was chosen over the alternatives. Although there were alternatives that did not involve crossing Williams Bog there is little rationale provided as to why this route was chosen. Williams Bog is not actually a bog but contains fen indicator species throughout the wetland. It is sustained by groundwater flow from the Nipissing Beach Ridge to the north and disruption to subsurface flow could negatively impact the ecological function of portions of the wetland. A decision to route the pipeline through this PSW should also be informed by a consideration of cumulative impacts on the wetland. This wetland has already been compromised

considerably by residential and highway development and potential negative effects due to the pipeline should not be examined in isolation.

With regards to a laydown area within the Neebing Marsh, any site alteration as defined in the Provincial Policy Statement ('activities such as grading, excavation and the placement of fill that would change the landform and natural vegetative characteristics of a site') would be inconsistent with the PPS.

In summary, we think that the Environmental Report fails to meet the expectations of the OEB Environmental Guidelines in terms of a thorough and transparent comparison of the environmental impacts of route alternatives. The proponent should be prepared to alter the chosen route if necessary based on the results of the EIS proposed for the Williams Bog PSW.

If you have any questions regarding Thunder Bay District's review of this report please do not hesitate to contact me.

Jeff Black
Planning Biologist
Thunder Bay District
Ministry of Natural Resources
807-475-1458
jeff.black@ontario.ca

January 19, 2012

To whom it may concern:

Re: Streamlining Infrastructure Ontario's (IO) Class EA with other Class EA processes – Union Gas Pipeline Project, Thunder Bay

Thank for Contacting Infrastructure Ontario (formerly the Ontario Realty Corporation) regarding the proposed undertaking.

IO is legislated to and required by the MOE and the environmental assessment act, to follow the "MOI Class EA Process for Realty Activities Other Than Electricity Projects (approved April 2004, amended September 11, 2008)" prior to any activities on IO managed lands.

The Class EA parent document can be found at:

[http://www.ontariorealty.ca/Assets/MEI+Class+EA+Document+\(amended\)_11Sep2008.pdf](http://www.ontariorealty.ca/Assets/MEI+Class+EA+Document+(amended)_11Sep2008.pdf)

The information in this letter is to guide proponents of EA projects regarding the incorporation of Infrastructure Ontario's EA requirements into their EA process. The incorporation of these requirements will allow IO to defer to the alternative EA process to satisfy it's legislative requirement.

In order to be able to defer, the following requirements must be met within the EA and EA process, unless otherwise indicated below:

Issue #1: An approved EA Process

For EA projects, IO is consulted regarding the applicability of the MEA/IEA Class EA processes and requirements when a proponent's proposed undertaking may directly or indirectly affect lands or facilities owned by MOI and managed by IO. The alternative EA process, with which MOI's EA process is proposed to be streamlined with, must be an approved EA process under the EA act. This means that although all consultations and evaluations have been completed, if it was not completed within the context of an approved Class EA process then streamlining or deferring to an alternative EA process to meet MOI's EA requirements would not be possible. In these situations IO is obligated to complete a Class EA for realty activities.

Issue #2: Identification of undertaking(s) and trigger to MOI Class EA

The EA process for a proposed project must articulate the applicable MOI undertaking, if streamlining with MOI's Class EA. The **correct undertaking** described in the MOI Class EA must be clearly identified and addressed. Please refer to section 9.7 of the Class EA, referenced in the preceding section, which explains that **despite a proponent receiving an approval under the EA Act ("Act"), MOI, IO, or an authorized agency under MOI ("MOI/IO/Agency"), are still responsible for meeting the requirements of the Act** when carrying out an undertaking on behalf of the proponent. (For example, this means that if a proponent's undertaking includes acquiring an easement or transfer of ownership of land owned by MOI and transacted by IO on the ministry's behalf, then **such realty activities to be conducted by IO must be clearly identified and assessed in the proponent's EA study**; otherwise, MOI/IO/Agency must

conduct a separate EA under the MOI Class EA process to meet its requirements under the Act.)

In addition, please ensure to include **any** lands that have been, or are subject to, an easement that include **Hydro One towers and transmission lines** or Bill 58 and Parkway Belt lands. MOI/IO's realty undertaking should be clearly identified, and be made separate from undertakings conducted by Hydro One. MOI is the owner for all Bill 58 and Parkway Belt lands and is solely responsible for granting any easements or conducting any disposition of such lands to another party.

For a description of Bill 58 lands and the Provincial Secondary Land Use Program please follow the following link: <http://www.ontariorealty.ca/What-We-Do/Managing-Hydro-Corridor-Lands/PSLUP.htm>

The proponent is requested to identify **how the EA meets MOI/IO's minimum EA requirements by referring to the seven point analysis**, as described in section 4.2, Step B1 of the MOI Class EA and detailed within the Consultation and Documentation Report template located in Appendix 3.

According to the MOI Class EA, an **undertaking is defined on Page 9-11**, in the Glossary of Terms. Undertakings are broken down into components; that is, one or more actions which may apply to one or more subgroups. MOI/IO/Agency undertakings need to be identified as real estate activities, including the issuance of a license/lease, granting of an easement, or disposition. Each undertaking has a different category level of consultation and analysis associated with it, as identified in Figure 2.2 EA Category Listing Matrix of the MOI Class EA.

Issue #3: Identifying the associated EA Category and ability to defer to an alternative EA

Please note that different undertakings in combination with the type of land to be impacted, determines the IO EA Class. As an example, granting an easement on IO managed lands is considered a Category "B" and an easement on Bill 58 lands, managed by Hydro One, is considered a Category "A". All lands to be disposed of by MOI are at a minimum Category "B" Class EA's and cannot be "bumped down" to a different Category (i.e Category "B" EA's cannot be Category "A"s).

As stated previously, the EA must meet the 7 point analysis identified in the MOI/IO's Class EA.

Issue #4: Consultation with IO Stakeholders

MOI/IO/Agency is required to circulate major stakeholders prior to land transfer, dispositions or easements, depending on the type of land to be impacted. It is possible under the MOI Class EA Process to defer to an alternative EA, given all other requirements have been met, and the client ministry or agency's EA circulates the appropriate stakeholder. One major stakeholder that is required to be contacted, and may be overlooked, is the MNR. Often the MNR does not have a significant interest in MEA projects. Conversely, however, **the MNR has a significant interest in IO's Class EA**, being another Provincial body. This is where confusion lies, regarding consultation, between a Municipal Class EA and IO's Class EA. MNR will often not provide any response to alternative EA's. This is not sufficient for IO's Class EA. As such, a **"no response" is not sufficient for IO. IO will require a letter indicating the MNR is choosing to decline to comment**. This documentation of consultation with the stakeholder is required. Please note **that during consultation, the relevant stakeholders are required to be**

made aware that the EA is also for IO's EA and are provided with a 30 day comment period.

Issue #5: Phase I Environmental Site Assessment and Stage 1/II Archaeological Assessments/Cultural Heritage Assessments

Depending on the type of realty activity to be completed, there is potential, based on the MOI Class EA Process, that a Phase I/II Environmental Site Assessment (ESA), Stage I/II Archaeological Assessment or Cultural Heritage Assessment may be required. Please note that **if a Phase I ESA was not completed within the EA document, for the IO managed lands, the deferral to the EA is still possible; however, the Phase I ESA must still be completed prior to disposition or granting of the easements**, according to the standards indicated. Please note that any required technical reports **are to be procured and paid for by the proponent** of the project. IO will require electronic copies of all required reports.

IO has specific standards that a Phase I ESA must meet. **If these standards are not met then IO can choose to reject the report and require that an additional report be procured by the proponent.** The Phase I ESA must be conducted in accordance with Schedule D of the Revised Brownfield Regulation. In addition to a site visit, the relevant interview(s), the site history, the location of adjacent properties and a records review, it shall also include all the relevant sources to ensure compliance with Schedule D. Although Part VII of the Revised Regulation is focused on risks to soil and groundwater, IO expects the Phase I ESA work to be done for this assignment to include an investigation of the potential presence, location and comments on designated substances and typical hazardous building materials. This is intended to capture topics such as asbestos, PCB-containing electrical equipment, lead-based paints, mercury containing materials, UFFI, mould, etc. The report is to present the details of the Phase I ESA investigation, meet the requirements of Table 1: Schedule D, and the additional information intended to capture the building materials mentioned above. In addition, with respect to Section 16(3)(c) of Schedule D, the likelihood of contaminants affecting the property must also be presented in the report and rated as either high, medium, low or minimal for each potential risk identified. Please note that ***full*** reliance on the report with no liability cap is required to be extended to IO. IO will require written confirmation of this, from the proponent's consultant and is to be incorporated into the report.

Issue #5: Ability to defer

The ability to defer to an alternative EA is determined if the EA meets MOI's Class EA seven point analysis. This can only happen when the realty undertaking has been identified in the EA, the associated Category EA has been articulated and sufficient consultation with IO's stakeholders has been documented. When the EA has been reviewed by IO staff, and approval to defer has been granted, **then the proponent will be required to complete and sign a deferral sheet acknowledging that the EA meets IO's/MOI's Class EA requirements.**

Concluding Remarks

If the proposed undertaking has a potential to cause impacts to MOI-owned property, it also has the potential to cause net negative environmental effects. Our comments are intended to ensure that outstanding issues of environmental, socio-economic and cultural heritage concerns related to this property, as well as complying with all regulations, will be appropriately addressed prior to the commencement of this undertaking. IO looks forward to continuing communication regarding this project.

Please note that in addition to the above requirements, and depending on the type of agreement, IO may also be required to circulate First Nations regarding the undertaking. Should First Nations consultation be a requirement of your EA, I recommend you contact IO for further details regarding this subject.

Please contact the undersigned if you have any questions.

Regards,

**Lisa Myslicki**

Environmental Advisor

Infrastructure Ontario - Professional Services

1 Dundas Street West,

Suite 2000, Toronto, Ontario

M5G 2L5

(416) 212-3768

lisa.myslicki@ontariorealty.ca



**THUNDER BAY GENERATING
STATION PIPELINE PROJECT
PREFERRED PIPELINE ROUTE
REVIEW: CAMBRIDGE
ST./CENTRAL AVE.**

File No. 160960657
January 2012

Prepared for:

Union Gas Limited
750 Richmond Street
Chatham, ON N7M 5J5

Prepared by:

Stantec Consulting Ltd.
70 Southgate Drive, Suite 1
Guelph, ON N1G 4P5

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Appendix B	Display Boards and Exit Questionnaire
Appendix C	Landowner and Agency Comments
Appendix D	Maps of the Cambridge St./Central Ave. Area: Preferred Pipeline Route, and Detailed Pipeline Route

1.0 Purpose of the Review

Stantec Consulting Ltd. was retained by Union Gas Limited ('Union Gas') to prepare an Environmental Report for the proposed Thunder Bay Generating Station Pipeline Project in accordance with the Ontario Energy Board's (OEB) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 6th Edition (OEB Environmental Guidelines) (2011)*, as well as relevant federal and provincial environmental guidelines and regulations.

Since completion of the Environmental Report in October 2011, Union Gas land agents have been engaged in discussions with landowners along the Preferred Pipeline Route. Certain landowners on Central Avenue noted that they did not receive direct correspondence regarding the Project during the Environmental Report planning phase, and requested that Union Gas review the location of the Preferred Pipeline Route in the Cambridge Street/Central Avenue area.

2.0 Public Meeting

2.1 PUBLIC MEETING DETAILS

Union Gas agreed to a public meeting with residents of the Cambridge Street/Central Avenue area. The purpose of the meeting was to:

- Provide information on the Environmental Study and selection of the Preferred Pipeline Route;
- Provide information on the construction implications if the pipeline route were to run down an alternative route; and,
- Gather feedback on what the majority of residents would prefer.

The public meeting was held on Wednesday, December 07, 2011 in the Tiberio A room of the Travelodge Hotel Airline (698 West Arthur Street, Thunder Bay, Ontario). The Meeting was held from 6:30 p.m. to 8:00 p.m.; members of the public began arriving at 5:45 p.m. The format of the meeting was a drop-in centre, although at the request of attendees for a presentation an open-format Q&A was undertaken.

Notification for the meeting occurred through mailbox drop-off to landowners in the Cambridge Street/Central Avenue area of the project location. A copy of the notification letter (which included a map of the Alternative Routes and Preferred Pipeline Route) and a map of the drop-off area is attached in **Appendix A**.

Stantec Consulting Ltd. was retained by Union Gas Limited ('Union Gas') to prepare an Environmental Report for Representatives from Union Gas (Bryan Heppler, Bill Wachsmuth, Doug Schmidt, George Adams, Merv Weishar, Don Pearo) and Stantec Consulting Ltd. (Dave Wesenger, Mark Knight) staffed the meeting.

2.2 COMMUNICATION MATERIALS

Communication materials presented at the public meeting included display boards and an exit questionnaire, copies of which are attached in **Appendix B**.

The following display boards were shown at the meeting:

- Project Overview
- Preferred Route (Map)
- Route Selection Process

- Alternative Routes: Cambridge St./Central Ave. (Map)
- Route Selection Process (1 panel per Alternative Route)
- Ontario Energy Board Review and Approval Process

2.3 ATTENDANCE & FEEDBACK

The public meeting was attended by ten landowners, and one municipal staff. Attendees were informed of the availability of exit questionnaires which they were encouraged to complete. Pre-stamped, self-addressed envelopes were also provided if attendees wished to provide comments at a later date. The exit questionnaire requested a response by December 14, 2011. To-date two completed questionnaires, and one emailed comment, have been received. Copies of the correspondence are attached in **Appendix C**.

2.4 COMMENTS AND RESPONSES

The key comments expressed verbally or through written comments were related to the Environmental Report process, the route selection process, and construction impacts. Table 2.1 outlines comments received to-date and responses provided by the Project Team.

Table 2.1: Comments and Responses		
Topic	Comment	Response
Environmental Report Process	Lack of direct project notification for landowners in the Cambridge Street/Central Avenue area.	As noted in Section 3.1.2 of the Environmental Report, the Environmental Study process included three separate notices in local newspapers. The December 7 th public meeting was also undertaken to address this concern.
	Perceived lack of justification criteria for selecting the Preferred Pipeline Route.	As provided in Section 4.4.1 of the Environmental Report, the review of alternative routes attempts to balance environmental and socio-economic impacts. Subsequent constructability considerations, which support the selection of the Preferred Pipeline Route, are provided in the display boards (Appendix B).
	Question regarding the accuracy of directions and distances in the Environmental Report.	The comment regarding the one incorrect direction has been noted. Distances of Alternative Routes through the Williams Bog Provincially Significant Wetland (PSW) were calculated using a Geographic Information System (GIS), with the wetland extent provided electronically by the Ontario Ministry of Natural

Table 2.1: Comments and Responses

Topic	Comment	Response
		Resources (see Appendix A for a map of the Williams Bog PSW boundary).
Route Selection Process	Perceived impacts to landowners from the Preferred Pipeline Route, versus an alternative route that would require clearing of a new easement through the Williams Bog PSW.	The evaluation of the alternative routes for the Thunder Bay Pipeline Project was conducted as per the OEB Environmental Guidelines (2011). The Guidelines provide a list of environmental and socio-economic impacts that should either be mitigated or avoided when routing pipelines. Under Section 4.3.6, Vegetation and Wildlife Habitat, it is noted that routes should avoid PSWs. Williams Bog has been classified as provincially significant due to a variety of criteria including size, location, biodiversity and presence of provincially and regionally significant plants and animals. The Thunder Bay Pipeline Project is also required to consider the Provincial Policy Statement which promotes the protection of PSWs. Recent correspondence from the Ministry of Natural Resources (Appendix C) reiterates the protection afforded to such wetlands, and notes that Williams Bog has already been compromised considerably by residential and highway development. In an attempt to minimize impacts to the Williams Bog PSW and residential properties, a Preliminary Preferred Route has been chosen which will utilize existing easements through the wetland (Cambridge Street and an electrical transmission corridor) and that largely avoids residential properties.
	Suggestion that the Williams Bog PSW will be developed in the future, and therefore should be of less significance in the evaluation.	The Provincial Policy Statement does allow for development within the Williams Bog PSW if it can be demonstrated that there will be no negative impacts on natural features or their ecological functions. Any development would

Table 2.1: Comments and Responses

Topic	Comment	Response
		also require rezoning, as the lands are currently zoned EP (Environmental Protection) in the City of Thunder Bay's Zoning Bylaw. Consultation with the City of Thunder Bay and Lakehead Region Conservation Authority has confirmed that there are currently no applications for development within the wetland north of the highway.
	Suggestion that safety concerns regarding pipeline leak and/or rupture should lead to a different Preferred Pipeline Route.	The pipeline will be constructed and maintained to meet or exceed the stringent safety codes and requirements of the Ontario Energy Board Act, Canadian Standards Association and Technical Standards and Safety Authority.
	Suggestion that the route evaluation should consider aesthetics.	Following construction activities, no visible evidence will exist (other than pipeline markers) to indicate that a natural gas pipeline is present.
	Suggestion that the route evaluation was based solely on economic considerations.	The route evaluation was undertaken in accordance with OEB Environmental Guidelines (2011).
Construction Impacts	Maintenance of property access during construction.	As noted in Section 5.4.2 of the Environmental Report, access to residential homes and businesses will be maintained at all times.
	Sterilization of potential uses of private property due to the pipeline easement.	While no excavation will be allowed within the pipeline easement without permission, Union Gas will utilize an existing easement, a portion of which is already located on private property.
	Pipeline construction and maintenance leading to a lack of privacy for residents.	Private residences are currently located next to a utility easement that would require maintenance. Due to the use of in-pipe and remote pipeline integrity and maintenance mechanisms, the frequency of on-site pipeline maintenance will be limited.
	Impacts to building foundations from construction activities.	Construction activities are not anticipated to cause vibrations at levels that will impact building foundations. If landowners have a

Table 2.1: Comments and Responses

Topic	Comment	Response
		concern regarding building foundations, pre and post construction inspection of foundation integrity can be undertaken by a qualified engineer. Should monitoring determine that the Project has resulted in impacts to foundation integrity, Union Gas would be responsible for returning the building to pre-construction conditions.
	Changes to the local hydrology from construction activities.	Union Gas will be responsible for ensuring that no changes to local hydrology are caused by construction activities.
	Permanent impacts to the function of a drain located along the southern edge of the hydro corridor between Cambridge Street and the Thunder Bay Expressway.	Union Gas will be responsible for ensuring that the function of the drain is not impacted by construction activities.
	Suggestion that the drain located along the hydro corridor (see above) supports fish and fish habitat.	Consultation with the Lakehead Region Conservation Authority suggests it is unlikely that the drain supports fish and fish habitat. Prior to construction, fieldwork will be undertaken to determine the presence/absence of fish and fish habitat. Based on the fieldwork findings, appropriate permits will be obtained.
	Removal of a tree buffer between Vimy Street and the Nadin Contracting lands.	Detailed engineering will attempt to minimize the extent of tree removal adjacent to the electrical transmission corridor. Union Gas will implement a tree replacement program to restore the tree buffer in this area.
	Request that excess material be used to build a berm for additional sound barrier along the right-of-way.	Excess material will be limited. Union Gas has no plans to build a berm along the right-of-way.

3.0 Confirmation of Preferred Pipeline Route

As outlined in Section 4.4.1 of the Environmental Report, the route evaluation process involved trade-offs between potential impacts to environmental features (such as utilizing existing easements through the Williams Bog PSW) and socio-economic features (such as proximity to residential properties). Therefore the Preferred Pipeline Route in the Cambridge Street/Central Avenue area was chosen given the limited extent of wetland crossing compared to other alternatives and the ability to largely avoid residential lands.

Union Gas confirmed selection of the Preferred Pipeline Route in the Cambridge Street/Central Avenue area from a constructability and engineering perspective. The location where the Preferred Pipeline Route crosses Oliver Road avoids residential properties and minimizes traffic impacts, and the location where the Preferred Pipeline Route crosses the Thunder Bay Expressway is already crossed by various utilities. In addition, the Preferred Pipeline Route avoids constructability constraints that would be faced with Alternative Route D - pipeline construction down an existing residential street resulting in nuisance impacts (traffic, noise) and property impacts (trenching along property fronts and driveways), and Alternative Route A - the crossing of the Thunder Bay Expressway/Highway 11/17 interchange.

Following feedback received during the public meeting process, Stantec Consulting Ltd. reviewed the above route selection and confirmed that the Preferred Pipeline Route along Cambridge Street and the existing utility corridor remains the preferred route (**Appendix D**).

4.0 Detailed Pipeline Route

Following confirmation of the Preferred Pipeline Route by Stantec Consulting Ltd., Union Gas identified a detailed pipeline route between Cambridge Street and the Thunder Bay Expressway, a map of which is attached in Appendix D.

The detailed pipeline route avoids the back of the residential properties for the majority of landowners along Central Avenue and utilizes an existing utility easement between Cambridge Street and the Thunder Bay Expressway. The avoidance of these residential properties by using existing utility corridors in urban areas is supported by the OEB Environmental Guidelines (2011). Stantec Consulting Ltd. recommends that the boundary limits of the proposed pipeline easement within the electrical transmission corridor be staked, to ensure construction personnel stay off the residential properties.

The detailed pipeline route may require temporary easement in the Williams Bog PSW during construction. The use of temporary easement within the Williams Bog PSW should be reduced to the extent practical, and clearing should be avoided and only occur if necessary for construction. Any vegetation removal along the temporary easement within the Williams Bog PSW should form part of the revegetation program as outlined in Section 5.3.1 of the Environmental Report. Union Gas Limited has retained KBM Resources Group to undertake detailed field studies of the Preferred Pipeline Route prior to construction. Union Gas Limited has also retained Allan Harris, the biologist who undertook the revised Williams Bog PSW wetland evaluation, to conduct an Environmental Impact Study (EIS) of the Preferred Pipeline Route within the Williams Bog PSW. Should the detailed field studies and/or EIS determine that negative impacts to the natural features or functions of the Williams Bog PSW will occur as a result of the pipeline installation, and that these negative impacts cannot be mitigated or compensated for, then a re-examination of the Preferred Pipeline Route should be conducted.

5.0 Conclusion

The December 7th, 2011 public meeting provided an opportunity for residents of the Cambridge Street/Central Avenue area to learn about the Environmental Study and selection of the Preferred Pipeline Route, and to ask questions and obtain responses to their comments and concerns. Landowners may continue to have concerns regarding the safety of the pipeline and the protection provided to the Williams Bog PSW. However, it is the opinion of Stantec Consulting Ltd. that the Preferred Pipeline Route in the Cambridge Street/Central Avenue area meets the objectives of the OEB Environmental Guidelines (2011) and remains the preferred route. Stantec Consulting Ltd. also recognizes that the detailed pipeline route avoids the majority of residential properties, and that efforts will be undertaken to minimize temporary land use within the Williams Bog PSW. It is recommended that on-going communication and consultation occur with interested landowners throughout the construction and operation of the pipeline.

STANTEC CONSULTING LTD

Mark Knight, MA, MCIP, RPP
Environmental Planner

David Wesenger
Senior Project Manager

APPENDIX A

NOTIFICATION LETTER AND DROP-OFF AREA MAP

**Stantec**

November 30th, 2011
File: 160960657

**Reference: Thunder Bay Pipeline Project
Notice of Meeting for Landowners**

Dear Landowner:

Union Gas is working on plans for a pipeline to bring natural gas to the Thunder Bay Generating Station. As part of this process an Environmental Study was undertaken that included three separate notices in local newspapers and a Public Information Session. Out of this process a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations, as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

You have received this letter because some landowners on Central Avenue have requested that Union Gas review the location of the Preferred Pipeline Route in the Cambridge/Central Avenue area. Representatives from Union Gas would like to meet with landowners to:

- Provide information on the Environmental Study and selection of the Preferred Pipeline Route;
- Provide information on the construction implications if the pipeline route were to run down an alternative route; and,
- Gather feedback on what the majority of residents would prefer.

An aerial photo showing the preferred and alternative pipeline routes is enclosed.

The meeting is planned as follows:

Travelodge Hotel Airline: Tiberio A
698 West Arthur Street
December 7th, 2011
6:30 to 8:00 pm

Following this meeting Union Gas will determine the Preferred Pipeline Route and submit an application for its construction and operation to the OEB. Before the pipeline project can proceed the OEB must approve the application. If approved, construction would begin in Spring 2013 with an anticipated in-service date of Fall 2013.

We hope that you are able to attend the meeting. If you have any questions or concerns regarding the Project or the planned meeting please contact Stantec Consulting through the methods list below.

Sincerely,

STANTEC CONSULTING LTD.

Mark Knight, MA, MCIP, RPP

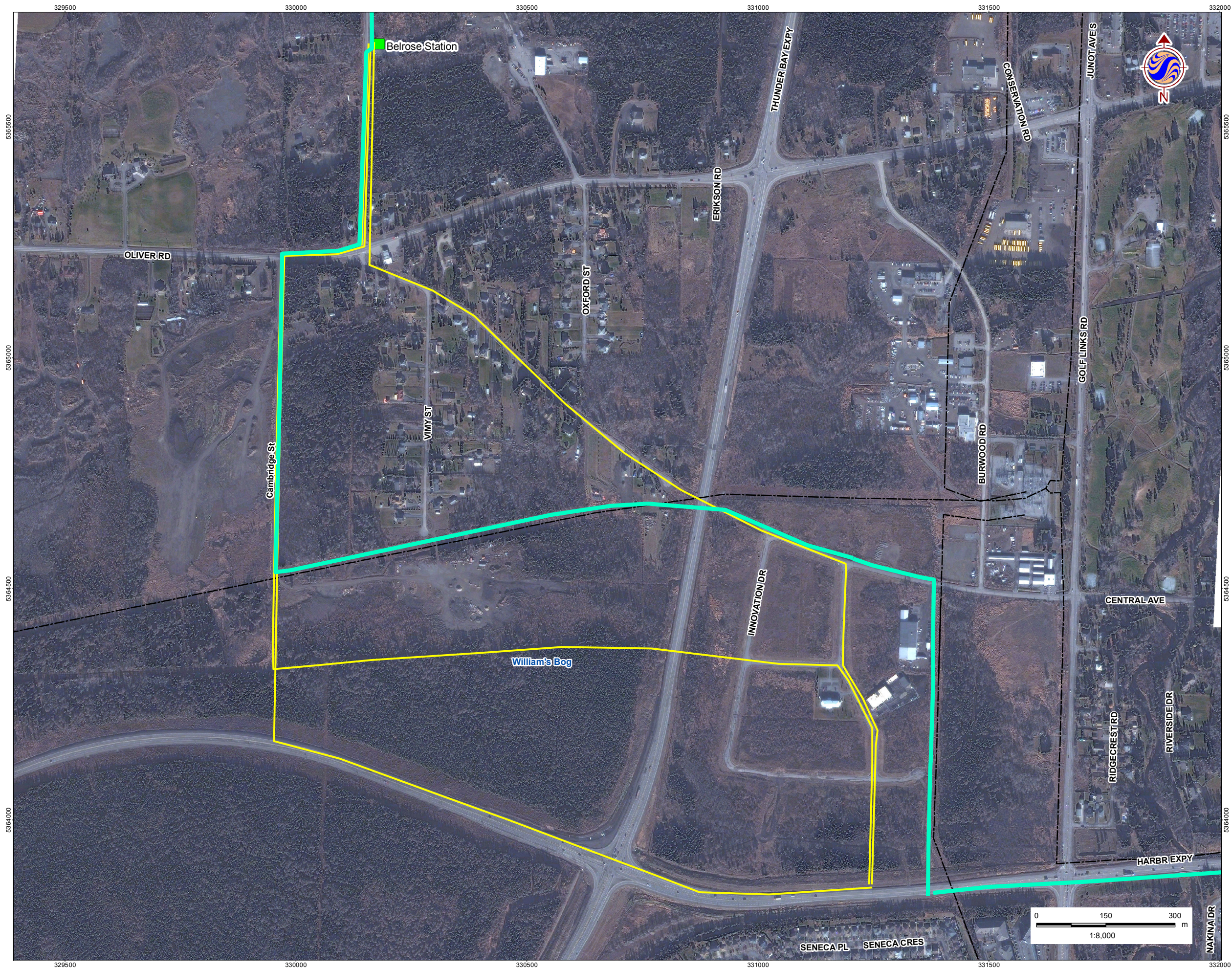
Environmental Planner

519-836-6050 (feel free to call collect)

807-684-8814 (to leave a message for a return call)

Mark.Knight@stantec.com

Attachment: Cambridge St./Central Ave.: Preferred Route and Alternative Routes



Legend

- Preferred Route
- Alternative Routes
- Utility Line

Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
Base features produced under license with the
- Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
- Image Source: © First Base Solutions 2009.



Stantec

November, 2011
160960657

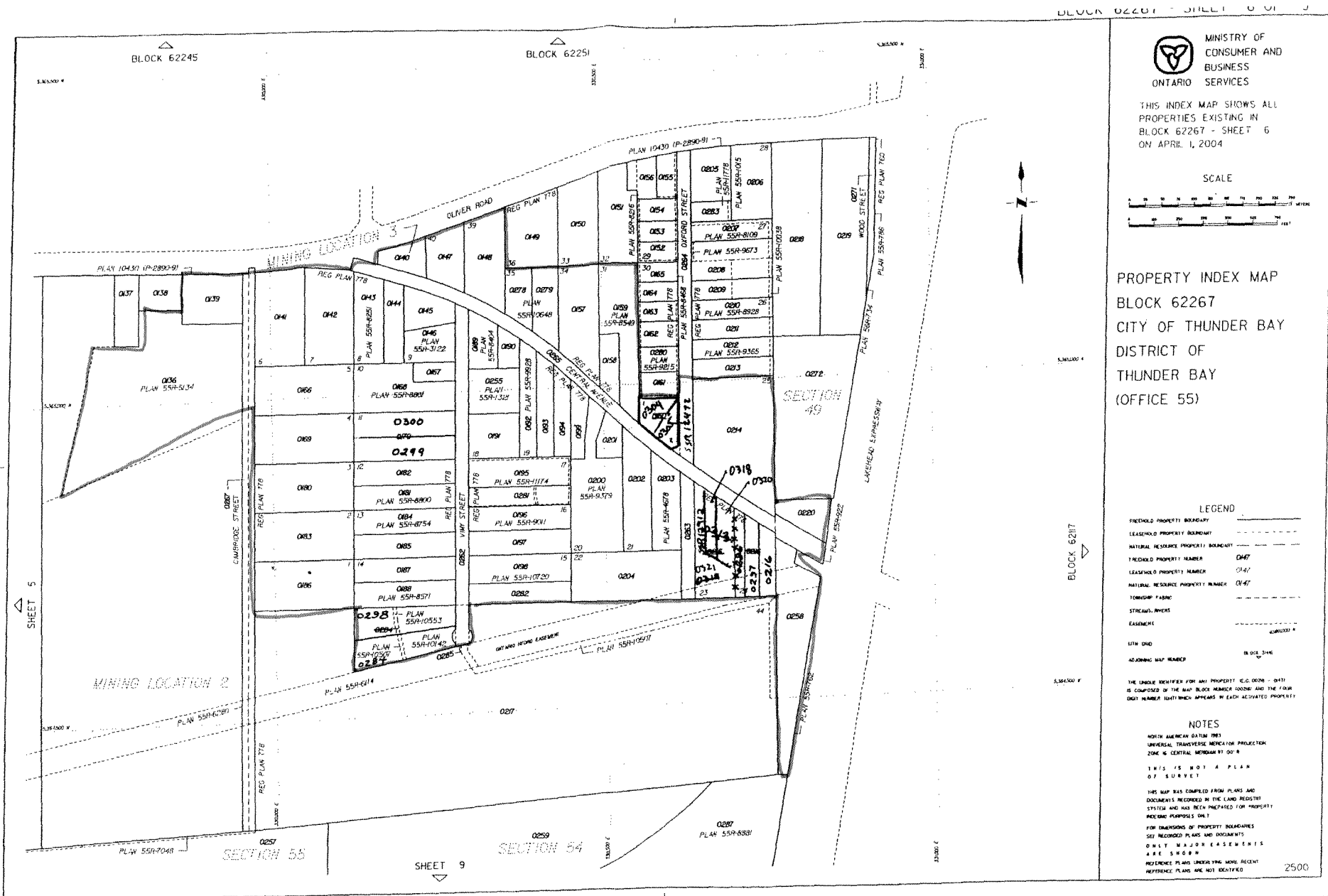
Client/Project

UNION GAS LIMITED
THUNDER BAY GS PIPELINE PROJECT

Figure No.

Title

Cambridge St./Central Ave.:
Preferred Route and Alternative
Routes



APPENDIX B

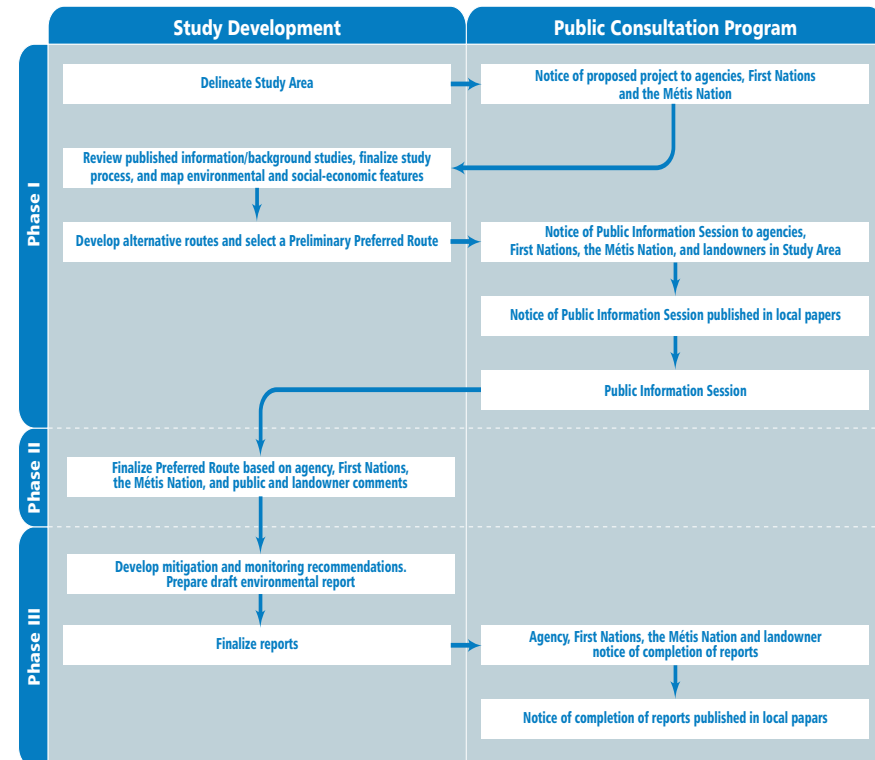
DISPLAY BOARDS AND EXIT QUESTIONNAIRE

Thunder Bay Generating Station Pipeline Project

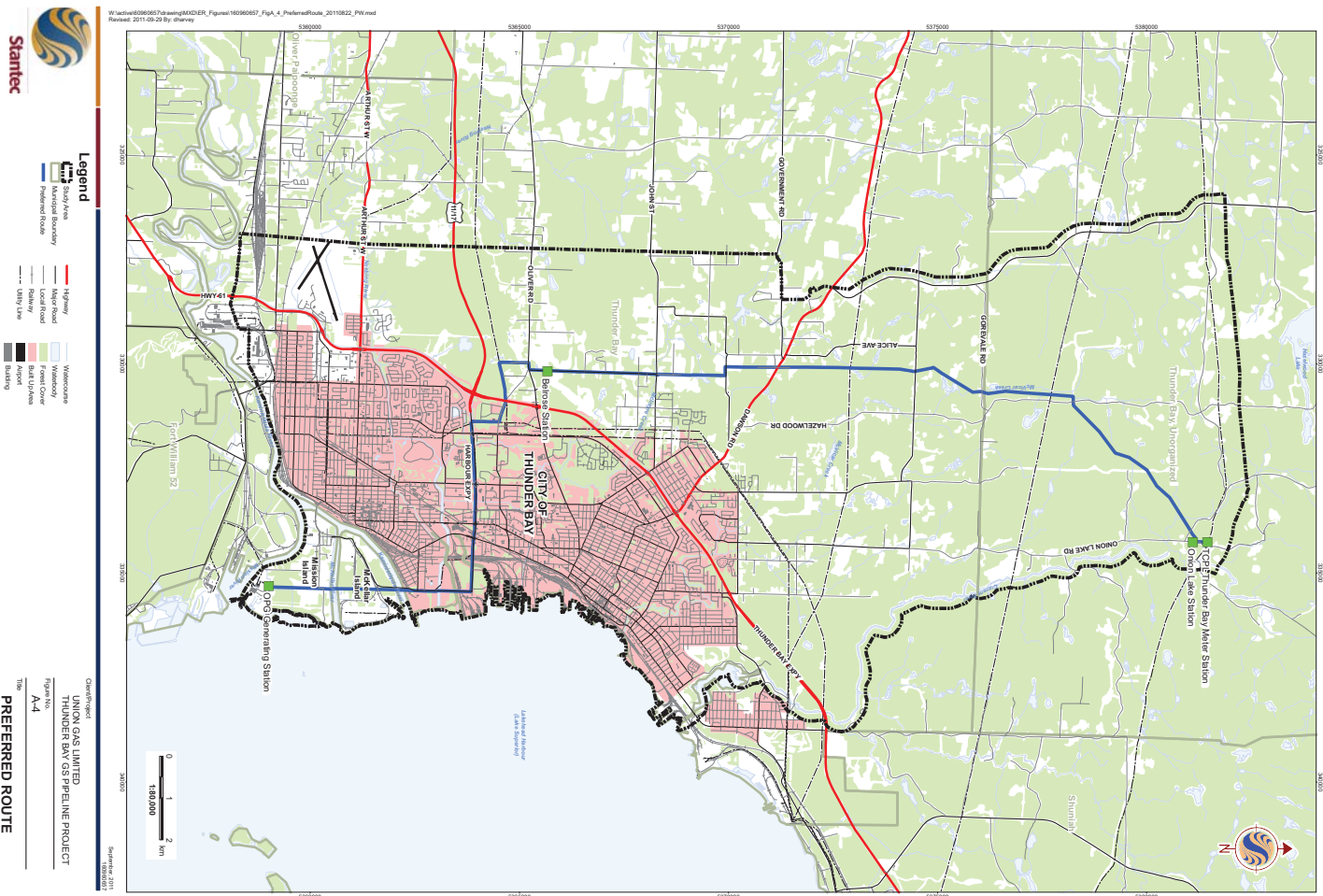
Project Overview

- Union Gas Limited is working on plans to bring natural gas service to the Thunder Bay Generating Station.
- The proposed Project involves the construction of a natural gas pipeline that starts at the TransCanada Pipeline Thunder Bay Meter Station, runs south to the Union Gas Onion Lake and Belrose Station, and continues to the Thunder Bay Generating Station. Construction between TransCanada's Thunder Bay Meter Station and the Union Gas Belrose Station (approx. 18.6 km) will involve the replacement of an existing 10 inch diameter pipeline with a new 16 inch pipeline that would be located within an existing pipeline easement. Construction between the Belrose Station and the Thunder Bay Generating Station (approx. 13.1 km) includes a new 12 inch diameter pipeline.
- As part of this Project an Environmental Study was undertaken that included three separate notices in local newspapers and a Public Information Session. Out of this process a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations, as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)".

ENVIRONMENTAL STUDY PROCESS



Preferred Route



Thunder Bay Generating Station Pipeline Project

Route Selection Process: Cambridge St./Central Ave.

Alternative Routes were generated by Stantec Consulting Ltd. based on three objectives:

1. Routes should follow a reasonably direct path between end-points;
2. Route should avoid sensitive environmental and socio-economic features to the extent possible; and,
3. Existing linear infrastructure should be utilized or paralleled to the greatest extent possible.

Four Alternative Routes were identified in the Cambridge St./Central Ave. area.

An alternative route along Oliver Road was explored but was excluded due to the following considerations:

- Utility congestion along Oliver Road would necessitate the closure of a lane of traffic on a major artery, resulting in traffic delays and safety concerns.
- Future changes to the interchange would require the relocation of the pipeline. The crossing is not supported by MTO, and is not efficient due to daylighting requirements and the need to follow the highway property boundary.
- The use of Oliver Road would necessitate more construction through bedrock compared to alternative routes further to the south.

Alternative Routes: Cambridge St./Central Ave.



Thunder Bay Generating Station Pipeline Project

Route Selection Process: Cambridge St./Central Ave.

Following public and agency feedback, Alternative Routes were subject to a comparative evaluation:

Alternative Route A

Alternative Route A travels south on Belrose Road to Oliver Road, east on Oliver Road to Cambridge Street, crosses the William Bog Provincially Significant Wetland (PSW), and then travels east along Highway 11 to the Harbour Expressway.

Pros:

- Avoids existing residential streets.
- The location of the Oliver Road crossing avoids residential properties and minimizes traffic impacts and construction through bedrock.

Cons:

- A new corridor would be required through the William Bog PSW, resulting in permanent vegetation clearing and direct disturbance to wildlife and wildlife habitat.
- Future changes to the interchange would require the relocation of the pipeline. The crossing is not supported by MTO, and is not efficient due to daylighting requirements and the need to follow the highway property boundary.

Thunder Bay Generating Station Pipeline Project

Route Selection Process: Cambridge St./Central Ave.

Following public and agency feedback, Alternative Routes were subject to a comparative evaluation:

Alternative Route B

Alternative Route B follows Route A until a point south of Cambridge Street where vegetation begins to thicken in the William Bog PSW, travels east across the William Bog PSW, Highway 11 and Capital Way in the Innova Business Park, and then heads south on Premier Way to connect to the Harbour Expressway.

Pros:

- Avoids existing residential streets.
- The location of the Oliver Road crossing avoids residential properties and minimizes traffic impacts and construction through bedrock.

Cons:

- A new corridor would be required through the William Bog PSW, resulting in permanent vegetation clearing and direct disturbance to wildlife and wildlife habitat.
- The new corridor would bisect a property parcel.

Thunder Bay Generating Station Pipeline Project

Route Selection Process: Cambridge St./Central Ave.

Following public and agency feedback, Alternative Routes were subject to a comparative evaluation:

Alternative Route C

Alternative Route C follows Route A until the electrical transmission corridor, travels east into the Innova Business Park and along Central Avenue, and then heads south on an electrical transmission corridor to connect to the Harbour Expressway.

Pros:

- Avoids existing residential streets.
- The location of the Oliver Road crossing avoids residential properties and minimizes traffic impacts and construction through bedrock.
- Utilizes an existing corridor through the William Bog PSW.
- Utilizes an existing utility crossing of the highway.

Cons:

- The existing corridor travels in proximity to a limited number of residential properties on Vimy Street and Central Avenue.
- The use of the corridor through the William Bog PSW would result in sensory disturbance to wildlife during construction.

Summary

Given the above, Alternative Route C was preferred from an environmental and socio-economic perspective. The route follows an existing corridor through the William Bog PSW and for the most part avoids existing residential properties.

Thunder Bay Generating Station Pipeline Project

Route Selection Process: Cambridge St./Central Ave.

Following public and agency feedback, Alternative Routes were subject to a comparative evaluation:

Alternative Route D

Alternative Route D travels south on Belrose Road to Oliver Road, heads east on Central Avenue, and then heads south on an electrical transmission corridor to connect to the Harbour Expressway.

Pros:

- Avoids the William Bog PSW.
- Utilizes an existing utility crossing of the highway.
- Most direct route.

Cons:

- The location of the Oliver Road crossing would result in greater impacts to residential properties and traffic than other alternative routes, and would result in more construction through bedrock.
- The pipeline would travel down the south side of an existing residential street, resulting in nuisance impacts (traffic, noise) and property impacts (trenching along property fronts and driveways).

Thunder Bay Generating Station Pipeline Project

Ontario Energy Board Review and Approval Process

The Ontario Energy Board (OEB) is the body that regulates the natural gas industry in Ontario, in the public's interest. The OEB's approval is required before this pipeline can be constructed.

Union Gas plans to submit our application for this project to the OEB. This application will include comprehensive information on the project including: the need for the project, facility alternatives, project costs and economics, pipeline design, pipeline construction, environmental mitigation measures, land requirements, and Aboriginal consultation.

The OEB will then hold a public hearing to review the project. This will include notices in local newspapers, letters to directly affected landowners, the opportunity for the general public and landowners to ask questions and submit questions regarding the project, a formal hearing, and a written decision regarding the project.

If after this review the OEB finds the project is in the public interest it will approve construction of the pipeline. If the project is approved the OEB normally attaches conditions to the approval which Union Gas will comply with during the construction and restoration process.

Additional information about the OEB process and information about how to participate in the OEB hearing process can be found <http://www.ontarioenergyboard.ca>

Submit application → Public hearing → Approval → Construction

Please review the displays and then take a few moments to answer the following questions. Comments are appreciated. If you require any assistance or clarification while completing the questionnaire please speak with a Union Gas or Stantec representative.

Completed questionnaires can be returned to a Stantec representative or mailed to Stantec Consulting Ltd. by **December 14th, 2011**. Postage paid, self-addressed envelopes are available at the sign-in table.

1. In reviewing the Preferred Route, do you feel that you will be impacted by the project? Please explain.

2. In regards to the route evaluation, do you agree with the pros and cons of each route? Should any additional impacts be considered when evaluating the routes?

3. Do you believe that an Alternative Route is more suitable than the Preferred Route? Please comment.

4. Do you have any other questions/concerns about this Project that you would like to bring to our attention?

Thank you for completing this questionnaire.

Please **Print** Clearly

Name: _____

Address: _____

Email: _____

Phone: _____

Do you consent to these comments being included in the public record?

☐ Yes

☐ Yes, but anonymously

☐ No

Signature: _____ Date: _____

APPENDIX C

LANDOWNER AND AGENCY COMMENTS



NADIN CONTRACTING LTD

101 FORTUNE ST.
THUNDER BAY, ON P7B 6R8

DATE: Dec. 14 / 11

OF PAGES: 3

FAX: 1-519-836-2493

Bus: (807) 623-4499
Fax: (807) 622-6278

TO COMPANY STANTEC CONSULTING LTD
ATTENTION MARK KNIGHT
FROM LOUIS NADIN

MESSAGE

RE: THUNDER Bay PIPELINE PROJECT.

MR. KNIGHT :

PLEASE FIND ATTACHED COMPLETED

QUESTIONNAIRE WITH RESPECT TO

THE THUNDER Bay GENERATING STATION

PIPELINE PROJECT.

REGARDS :

Signed: _____

THUNDER BAY GENERATING STATION PIPELINE PROJECT

EXIT QUESTIONNAIRE – December 7th, 2011



Please review the displays and then take a few moments to answer the following questions. Comments are appreciated. If you require any assistance or clarification while completing the questionnaire please speak with a Union Gas or Stantec representative.

Completed questionnaires can be returned to a Stantec representative or mailed to Stantec Consulting Ltd. by **December 14th, 2011**. Postage paid, self-addressed envelopes are available at the sign-in table.

1. In reviewing the Preferred Route, do you feel that you will be impacted by the project? Please explain.

YES MY PROPERTY WILL BE IMPACTED AS FOLLOWS:
- TREE BUFFER WILL BE LOST
- FUTURE DEVELOPMENT WILL BE COMPROMISED WHEN OXFORD & VINNY WILL BE EXTENDED ~~BEY~~ SOUTH BEYOND HYDRO R.O.W.
- NO ACCESS TO OUR PROPERTY SOUTH OF HYDRO R.O.W. DURING PIPELINE CONST. ON CAMBRIDGE?

2. In regards to the route evaluation, do you agree with the pros and cons of each route? Should any additional impacts be considered when evaluating the routes?

- ESTHETICS OF ABUTTING RESIDENTIAL LANDSCAPE CONSIDERED?
- WAS ROUTE BASED SOLELY ON ECONOMICAL FEASIBILITY?
- WILL REMOVAL OF NATURAL BUFFERS ADD TO INCREASED ~~NOISE~~ TRAFFIC NOISE LEVELS FROM THE EXPRESSWAY TRAFFIC.

3. Do you believe that an Alternative Route is more suitable than the Preferred Route? Please comment.

YES THE ALTERNATE ROUTE IMMEDIATELY SOUTH OF PREFERRED ROUTE SEEMS MORE SUITABLE.
- THERE WOULD BE NO DISRUPTION TO ANY RESIDENTS
- CITY OWNED PROPERTY WOULD BE AN EASIER PROCESS TO OBTAIN R.O.W. CLEARANCE.
- WILLIAMS BOB WOULD BE IMPACTED BUT WILL THE BOB BE AN ISSUE TO FUTURE CITY EXPANSION? DUE TO GROWTH & SHORTAGE OF LAND FOR DEVELOPMENT. I FEEL THERE IS AN OVER EMPHASIS ON PROTECTING THIS BOB. ~~WHY~~ WHY DID MTO RUN A HIGHWAY THROUGH IT IF IT WAS SUCH A SIGNIFICANT WETLAND? - SEEMS TO BE A CONTRADICTION AS TO WHAT IS MORE SIGNIFICANT.

THUNDER BAY GENERATING STATION PIPELINE PROJECT



uniongas
A Spectra Energy Company

EXIT QUESTIONNAIRE – December 7th, 2011

4. Do you have any other questions/concerns about this Project that you would like to bring to our attention?

- WILL CONSTRUCTION OF PREFERRED ROUTE RESTORE EXISTING NATURAL TREE LINE TO PRE-CONST. STATE. ?
- WILL EXCESS EXCAVATED MAT'L BE USED TO CREATE A BERM FOR ADDITIONAL SOUND BARRIER ALONG THE R.O.W.
- WILL FUTURE SANITARY/STORM + WATERLINE EASEMENTS BE COMPROMISED IF SHARED WITH NEW GAS LINE?

Thank you for completing this questionnaire.

Please Print Clearly	NADIN CONTRACTING LTD.
Name:	LOUIS & FIORELLA NADIN
Address:	195 VINY ST. THUNDER BAY P761N3
Email:	lnadin 27 @ Shaw . ca.
Phone:	807 - 626 - 4092 (CELL)

Do you consent to these comments being included in the public record?

☒ Yes

☐ Yes, but anonymously

☐ No

Signature: [Signature]

Date: DEC. 14/11.

Knight, Mark

From: [REDACTED]
Sent: Wednesday, December 14, 2011 8:13 PM
To: Knight, Mark
Cc: Weishar, Merv
Subject: Concerns with Central Ave Gas line route

Good day Mark,

Sorry for the late date in sending in our concerns but until last night's meeting with Merv all of the participants at the meeting at the Travel Lodge thought that since we were present at the meeting our concerns were noted by Stantec and we did not need to send in the form or a letter.

Our first and most significant concern is the fire and explosion risk created by running the planned high pressure 12 inch diameter gas line directly under the high voltage hydro lines and through our back yard especially. Your preferred route will involve approximately 1 ½ km of the gas line directly under the hydro lines. As we discussed at the public meeting there have been a significant number of incidents in the US and Canada over the past year where there have been stress cracks and ruptures of the gas line which either caused a fire or an explosion or both. The most recent we found on the internet is just about 150 km from us in Gervais, ON in February, 2011 where the main gas line ruptured and caused a huge fire. The cause of this fire was stress fracture and the source of ignition was possibly static electricity as indicated in the internet article. As the high voltage hydro lines are a constant source of static electrical discharge there is a constant source of ignition very close to your planned gas line route. Another article we found states that the safe distance between residences and a high pressure gas line should be approximately 300 metres and our home is only possibly 40 or 50 metres from where you are recommending installation of the gas line. As a result, your preferred gas line route is not at all acceptable in terms of the safety of the residences of the lower part of Central Ave.

Another concern in terms of fire/explosion is the extremely high water table along route "C". The water table is only about 2 feet below the surface in our back yards which would cause increased stress on the steel pipe which would increase the risk of rupture or leakage. This affect will be increased in the winter months as the pipeline will be exposed to repeated freeze/thaw cycles which will also cause increased stress on the pipeline increasing the risk of rupture. The extent of corrosion on the pipeline will also increase due to the pipeline being submerged below the water table. In the winter, if there is a leak the gas will be contained under the frozen ground surface and the gas will simply flow until it finds a point of access with reduced containment. This may be the weeping tile around a house or the septic system which would then fill with gas until a source of ignition (our sump pump or a sink drain) is found and an explosion will probably result.

Our second concern is that your preferred route will cause the loss of use of the rear portion of the five (5) residential properties along Central Ave due to the installation of the gas line. One of the properties will be cut approximately in half front to back leaving the landowner unable to utilize the back half of their property even though your proposed route will only utilize a 15 m easement through the middle of the property.

We also have concerns with the accuracy of the information that is written in your Environmental Report that we reviewed. First of all, your directions for the route down Belrose St and onto Oliver Road. Your report states that the line will go **East** on Oliver Rd where the direction is actually **West** on Oliver to Cambridge St. The distances that you quote for the various route options do not make sense either. Your report states the option "C" route would require **1307 m** through the bog whereas options "B" and "C" only require **579 m** and **300 m** respectively. This does not make sense since all three options are parallel to each other and they all run between Cambridge St and the Thunder Bay expressway which are essentially parallel to each other if not the Thunder Bay Expressway comes closer to Cambridge St as you move along the expressway which would make route "A" a shorter distance than the other two routes. These

measurements would be critical in determining the best route to choose. Options "A" and "B" both totally avoid the residential properties on Central Ave whereas option "C" (your preferred route) results in the gas line crossing all five residential properties and being within about 40 or 50 metres of the residences. We found an article on the internet that states that the minimum distance between a 16 inch (the actual line is to be 12 inches) high pressure gas line and residences should be at least **321 m** not what you are proposing which is about **50 m** to our residences. For these reasons, we believe that routes "A" or "B" should be the preferred route for the proposed gas line to avoid the risk to the residential properties along Central Ave. There is no future risk to consider either as the bog, which is a Provincially designated significant wetland, will prevent any future residential development in proximity to the gas line. The view of all of the residents along Central Ave and Vimy St is to ask which is more important, the risk to human health and safety or the loss of an easement portion of the Williams Bog wetland area to accommodate the installation of the gas line following either routes "A" or "B"?

Several of the landowners have read through your Environmental Report attempting to find the criteria that you utilized to assess each of the route options to determine that option "C" is the best route for the gas line. Nowhere in your report can we find any indication to justify route "C" as the safest, minimally environmentally damaging, cost effective or construction feasible route. As a result, we are all left asking the important question, **"Why did you recommend route "C" as the preferred route for the proposed gas line?"** as we can find no justification to choose route "C" and the information in the report all indicates that either route "A" or "B" should be the preferred route to make the installation as safe as possible for the residents of Central Ave.

On page 4.6 of your report you state that, **"was identified to interested and potentially affected parties through written correspondence and public consultation"** where in fact only 2 of the 5 directly affected landowners were contacted and given the opportunity to voice their concerns prior to the final report being written. In terms of the public consultation process, the notices of the public meetings in early 2011 gave absolutely no indication of the route the gas line would take between the Belrose Pumping Station and the power plant. As a result, none of the residences on Central or Vimy streets thought there was any concern to them with the planned installation of the gas line. We all believe that the notice in the paper should have clearly indicated the proposed route for the gas line would go under the hydro lines and through our properties.

I sincerely hope that you and Union Gas will reconsider your preferred route for the gasline between Belrose station and the Junot/Harbour Expressway intersection in order to address our serious concerns for our safety in our residences on Central Ave.

Sincerely

THUNDER BAY GENERATING STATION PIPELINE PROJECT



A Spectra Energy Company

EXIT QUESTIONNAIRE – December 7th, 2011

Please review the displays and then take a few moments to answer the following questions. Comments are appreciated. If you require any assistance or clarification while completing the questionnaire please speak with a Union Gas or Stantec representative.

Completed questionnaires can be returned to a Stantec representative or mailed to Stantec Consulting Ltd. by **December 14th, 2011**. Postage paid, self-addressed envelopes are available at the sign-in table.

1. In reviewing the Preferred Route, do you feel that you will be impacted by the project? Please explain. **ABSOLUTELY!! DIRECTLY.**

I will be losing the functionality of my backyard. My husband and I have put a lot of work into fixing this property. Our efforts will be all for nothing. We will lose what we have done, and what we want to do in the future. Impacts to our high water table which will impact the rest of our property and our home. Safety factor of living with this gas line under hydro lines is a concern. Research of gas line explosions shows that it happens more often than people know. The constant maintenance of the line, would cause us to lose privacy of property. The time and cost for all the pre-construction studies and meetings for property owners is a concern. Damage to house utilities (septic, sump, drainage), house & shed foundations is a concern. Losing all the reasons for purchasing this home. We have no say as property owners as to what happens to what we pay for.

2. In regards to the route evaluation, do you agree with the pros and cons of each route? Should any additional impacts be considered when evaluating the routes?

Why would you want to impact residential properties when other routes don't touch, directly touch, people's properties. Why not talk to ~~municipality~~ city and MTO more directly focus on why using their already established corridors which are unusable for anything else. Need to be shown how these pros/cons were established. What standards and/or protocols that was used to determine the "preferred route". Options A & B would totally avoid all impacts to residential properties.

3. Do you believe that an Alternative Route is more suitable than the Preferred Route? Please comment. **YES!!**

*Options A & B would totally avoid all impacts to residential properties. Why would residence want to deal with having a gas line directly on properties, dealing with all the inconvenience and annoyance of construction, loss of functionality of property, always having health and safety concerns, repeated maintenance program. Constant annoyance of people on our properties before, during & after construction. Lose functionality (fire pit, access, upgrades to our property) ~~loss~~ **OPTIONS A & B should be used.***

Why impact residential properties, when there are 2 routes that do not touch residential properties at all.

**safety & health
*functionality
of properties
LOST!!*

THUNDER BAY GENERATING STATION PIPELINE PROJECT

EXIT QUESTIONNAIRE – December 7th, 2011

4. Do you have any other questions/concerns about this Project that you would like to bring to our attention?

**Creek
- fish
- trees
- wildlife
use.*

Creek along the back of residences on Central have many animals and fish species. What impacts/mitigations due you expect to encounter? how will you decrease impacts to the creek and water damage. Mitigation to direct impacts to residential houses. How/who will deal with all the "what ifs" and what plans do you expect to have in place.

Thank you for completing this questionnaire.

Please **Print** Clearly

Name

Address

Email

Phone

Do you consent to these comments being included in the public record?

☐ Yes

☒ Yes, but anonymously

☐ No

Signature

Date:

Dec. / 11

I hope that Union Gas will reconsider your preferred route for the gasline between Belrose station and the Junot, Harbour Expressway intersection.



Thunder Bay District
Ontario Government Building
Suite B001, 435 James Street South
Thunder Bay, ON P7E 6S8

Ministry of
Natural Resources

Ministère des
Richesses naturelles

Tel: (807) 475-1471
Fax: (807) 475-1527

January 6, 2012

Mr. Doug Schmidt
Principal Environmental Planner
Union Gas Limited
50 Keil Drive North
Chatham ON
N7M 5M1

Dear Mr Schmidt;

Thank you for the opportunity to review the October 2011 Thunder Bay Generating Station Pipeline Project Environmental Report. Thunder Bay District OMNR offers the following comments for your consideration.

The District has concerns regarding the lack of a comprehensive route evaluation and ultimately the selection of a final preferred route. We understand that detailed natural heritage field studies were completed for the section of replacement pipeline between the TCPL Thunder Bay Meter Station and the Union Gas Belrose Station. However it appears that similar studies were not conducted for any of the route alternatives including the preferred route for the new section of pipeline between Belrose Station and the Mission Island Generating Station. As stated in the 2011 Ontario Energy Board (OEB) Environmental Guidelines: 'The scope of the analysis is expected to become more refined and site specific, as the planning process proceeds. Initially, the data may be based primarily on secondary sources. Once the alternatives have been identified, more detailed field studies and analyses allow for a more thorough comparison of impacts'. The consideration of natural heritage features in the selection of the preferred route should not be limited to previously documented natural heritage values. There is an expectation that a comparison the impacts of alternative routes on natural heritage values include an assessment of any previously undocumented natural heritage features.

With regards to natural heritage features included in the report, the preferred route crosses through a provincially significant wetland (Williams Bog) and adjacent to a provincially significant coastal wetland (Neebing Marsh) with a laydown area proposed within the wetland. The Ontario Energy Board is required to be consistent with the Provincial Policy Statement (PPS). The PPS states that site alteration shall not be permitted in significant coastal wetlands and shall not be permitted in significant wetlands in the Canadian Shield unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions. We note that the Environmental Report recommends that an Environmental Impact Study be undertaken to determine impacts on these wetlands. In the absence of conducting an EIS for the crossing of Williams Bog, a decision on the preferred route seems premature.

The 2011 Ontario Energy Board (OEB) Environmental Guidelines require route evaluation to follow a set of explicit decision rules and to provide transparency in the reasons why the preferred alternative route was chosen over the alternatives. Although there were alternatives that did not involve crossing Williams Bog there is little rationale provided as to why this route was chosen. Williams Bog is not actually a bog but contains fen indicator species throughout the wetland. It is sustained by groundwater flow from the Nipissing Beach Ridge to the north and disruption to subsurface flow could negatively impact the ecological function of portions of the wetland. A decision to route the pipeline through this PSW should also be informed by a consideration of cumulative impacts on the wetland. This wetland has already been compromised

considerably by residential and highway development and potential negative effects due to the pipeline should not be examined in isolation.

With regards to a laydown area within the Neebing Marsh, any site alteration as defined in the Provincial Policy Statement ('activities such as grading, excavation and the placement of fill that would change the landform and natural vegetative characteristics of a site') would be inconsistent with the PPS.

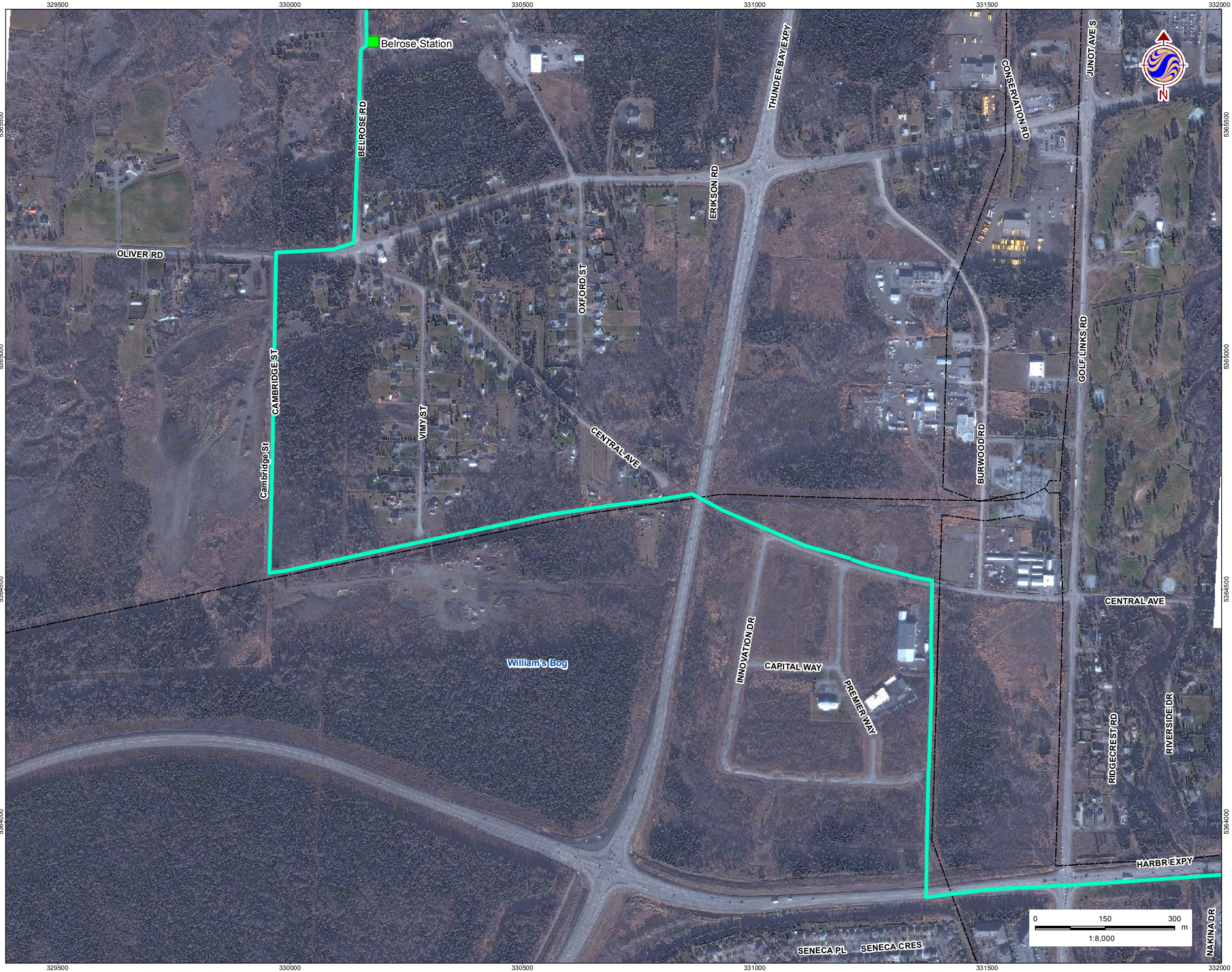
In summary, we think that the Environmental Report fails to meet the expectations of the OEB Environmental Guidelines in terms of a thorough and transparent comparison of the environmental impacts of route alternatives. The proponent should be prepared to alter the chosen route if necessary based on the results of the EIS proposed for the Williams Bog PSW.

If you have any questions regarding Thunder Bay District's review of this report please do not hesitate to contact me.

Jeff Black
Planning Biologist
Thunder Bay District
Ministry of Natural Resources
807-475-1458
jeff.black@ontario.ca

APPENDIX D

MAPS OF THE CAMBRIDGE ST./CENTRAL AVE. AREA: PREFERRED PIPELINE ROUTE, AND DETAILED PIPELINE ROUTE



Legend

- Preferred Pipeline Route
- Utility Line

Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
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Stantec

January, 2012
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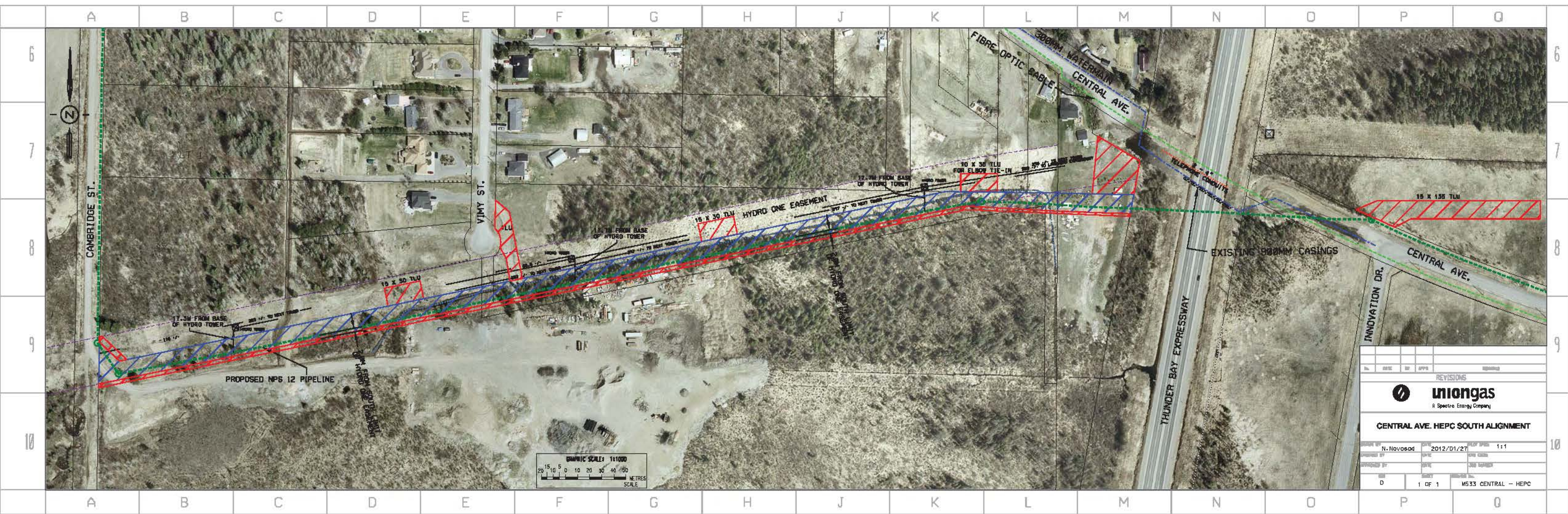
Client/Project

UNION GAS LIMITED
THUNDER BAY GS PIPELINE PROJECT

Figure No.

Title

Cambridge St./Central Ave.:
Preferred Pipeline Route



LANDOWNER CONTACTS THUNDER BAY

	Date
Preliminary:	
Newspaper advertisements and letters announcing the Public Information Session.	April, 2011
Public Information Session - presentation of preliminary preferred route.	May, 2011
Meetings with specific individual landowners re routing.	November, 2011
Newspaper advertisements and letters announcing the completion of the Environmental Report.	October, 2011
Second public meeting held by environmental consultant to provide details of the route in the Cambridge Street Central Avenue area.	December 2011
Pre-Construction:	
Prior to the filing of the OEB, "Leave to Construct" application, Union Gas notified the affected landowners of the timing of the proposed pipeline.	November 2011, ongoing
Permissions to do surveys (and archaeological testing, as required), will be requested from the affected landowners.	January 2012
Negotiations with landowners for easements and temporary easements.	January 2012, ongoing
OEB "Leave to Construct" Application.	Spring, 2012
If required, negotiations with landowners for easements and temporary easements will continue, utilizing documents prepared based upon recent settlements.	After OEB "Leave to Construct" Hearing to Commencement of Construction
If required, the process of expropriation will be commenced and completed, in order to meet the construction timetable.	After OEB "Leave to Construct" Hearing to Commencement of Construction
A Project Engineer and a Lands Relations Agent will attempt to meet with each landowner along the route prior to the commencement of construction.	
Construction:	
Contacts during pipeline construction by Union's Landowner Relations Agent, Inspectors, and Contractor will occur. Name(s) and phone number(s) of field contact personnel will be made available should concerns arise.	
Each landowner will be requested to review and sign a Clean-up Acknowledgement form which releases the Contractor and allows him/her to be paid for the work on the property. Union will maintain responsibility for any future damages arising from construction.	
Post-Construction:	
Union's Lands Department will settle any damages caused by construction, not already covered by payments previously made.	
Union's Engineering staff will review each property the following spring after construction and perform any required repairs.	
Contact with Union's Operations personnel will be ongoing through line surveys and regular maintenance activities.	

PIPELINE AND LAND RIGHTS MAP

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
(Replacement NPS 16" Pipeline)

EB-2012-0226/0227
Schedule 18

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R1/L3351	62325-0036 LT		Pcl 18805 Sec TBF; Pt Lt 7, Con 4 Gorham Being Pt E½ of E½ of S½; Pt S½ Lt 6, Con 4 of Gorham Pt 1 to 3 55R-3783. S/T LPA51287; LT226668; LT225093 District of Thunder Bay		168.3 x 5.0 (0.084)
R2	62325-0119 LT		Pcl 26494 Sec TBF; Pt Lt 6 Con 3 Gorham Pt 1, 55R-10371 District of Thunder Bay		irreg x 5.0 (0.01)
R3	62325-0118 LT		Pcl 26169 Sec TBF; Pt Lt 6 Con 3 Gorham Pt 3, 55R-10371 District of Thunder Bay		53.8 x 5.0 (0.04)
	KAM - Current Road				
R4/L3316 T389-001	62325-0130 LT		Pcl 14861 Sec TBF; Pt Lt 7 Con 3 Gorham as in LPA85862 Except Pt 1 55R-10451 S/T LPA53784; LPA76927 District of Thunder Bay		204.91 x 5.0 40.0 x 10.0 (1.6) 40.0 x 10.0 (1.6) 40.0 x 10.0 (1.6) 40.0 x 10.0 (1.6) irreg x 10.0 (0.19) irreg x 10.0 (0.19) irreg x (0.04) 286.7 x 5.0 (0.14) 506.2 x 5.0 (0.26)
R5/L3317 T389-002	62325-0133 LT		Pcl 22119 Sec TBF; Pt S½ Lt 8 Con 3 Gorham Pt 4 to 6 55R-5818; S/T LPA76825; LT226667 District of Thunder Bay		132.4 x 5.0 (0.07)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
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Schedule 18

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R6/L3318 T389-002	62325-0134 LT		Pcl 21716 Sec TBF; Pt S½ Lt 8 Con 3 Gorham Pt 1 to 3 55R-5818; S/T LPA76825; LT226665 District of Thunder Bay		237.8 x 5.0 (0.12) 98.9 x 5.0 (0.06)
R7/L3319 T389-002	62325-0137 LT		Pcl 24045 Sec TBF; Pt S½ Lt 8 Con 3 Gorham Except Pt 1-2 55R-3091; Pt 1 to 6 55R-5818 S/T LT227210 District of Thunder Bay		267.9 x 5.0 (0.14) 296.6 x 5.0 (0.15) 40.0 x 10.0 (0.04)
R8/L3320 T389-003	62325-0150 LT		Pcl 8207 Sec TBF; Pt S½ Lt 9 Con 3 Gorham Except LPA27598; S/T LPA76833 District of Thunder Bay		545.7 x 5.0 (0.28) 422.4 x 5.0 (0.22) 40.0 x 10.0 (0.04)
R9/L3321 T389-004	62325-0479 LT		Lt 9, Con 2 Gorham SRO Except Pts 1 & 2 55R-8898 & Pts 1 & 4, 55R-11531 Thunder Bay; S/T LPA76822		865.8 x 5.0 (0.44) 822.9 x 5.0 (0.42)
R10/L3322 T389-006	62325-0160 LT		Pcl 7030 Sec TBF; Mining Location R-464 McIntyre; S/T LPA76823 District of Thunder Bay		39.0 x 5.0 (0.02)
R11/L3323 T389-005	62325-0156 LT		Pcl 24306 Sec TBF; Pt Lot 10 Con 2 Gorham SRO as in F7497; S/T LPA76821 District of Thunder Bay		712.1 x 5.0 (0.36) 120.0 x 5.0 (0.06) 526.1 x 5.0 (0.27)
R12/L3324 T389-005	62325-0157 LT		Pcl Sec TBF; Pt Lt 10 Con 2 Gorham Pt Lot 11 Con 2 Gorham; Pt 1 55R-7892 S/T LPA76821; 226666 District of Thunder Bay		314.7 x 5.0 (0.16) 154.3 x 5.0 (0.08) 40.0 x 10.0 (0.04)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
(Replacement NPS 16" Pipeline)

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File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R13/L3325 T389-005	62324-0207 LT		Pcl 23593 Sec TBF; Pt S½ Lt 11 Con 2 Gorham SRO; Pt 1, 3 to 11 55R-7784 Except MRO as in LT244160; s/ T LPA76821, LT226666 District of Thunder Bay		120.9 x 5.0 (0.06) 40.0 x 10.0 (0.08) 40.0 x 10.0 (0.08)
R14/L3326 T389-007	62324-0205 LT		Pcl 7877 Sec TBF; NE¼ Lt 11 Con 1 Gorham Except LPA22629; S/T F51142, LPA76824; LT226664 District of Thunder Bay		70.0 x 5.0 (0.04) 267.9 x 5.0 (0.9) 267.9 x 5.0 (0.9) 40.0 x 10.0 (0.17)
R15/L3327 T389-009	62324-0203 LT		Pcl 19607 Sec TBF; Pt NE¼ Lt 11 Con 1 Gorham Pt 1 to 3 55R-4728; S/T LPA76826; LT162034; LT226662 District of Thunder Bay		68.7 x 5.0 (0.07) 68.7 x 5.0 (0.07)
R16/L3328 T389-009	62324-0204 LT		Pcl 20744 Sec TBF; Pt NE¼ Lt 11 Con 1 Gorham Pt 4 to 6 55R-4728; S/T LPA76826; LT226733 District of Thunder Bay		67.8 x 5.0 (0.07) 67.8 x 5.0 (0.07)
R17/L3329 T389-010	62324-0200 LT		Pcl 14338 Sec TBF; E½ of S½ Lt 11 Con 1 Gorham SRO; Except Pt 1 55R-11621 S/T LPA76820; LT226663 District of Thunder Bay		563.3 x 5.0 (0.30) 1081.8 x 5.0 (0.6) 40.0 x 10.0 (0.04)
R18/L3330 T389-011	62235-0060 LT		Pcl 21080 Sec TBF; Pt NW¼ Sec 5 McIntyre Pt 1, 2, 55R-4475 S/T Pt 1 55R-4475 as in LT123213; S/T LPA76931; LT226646 Thunder Bay		190.5 x 5.0 (0.10)
R19/L T389-011	62235-0061 LT		Pcl 239 Sec TBF; Pt NW¼ Sec 5 McIntyre Pt 6, 7, 8, 55R-8681; S/T F22886; LPA76931 Thunder Bay		150.5 x 5.0 (0.08) 40.0 x 10.0 (0.04)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
(Replacement NPS 16" Pipeline)

EB-2012-0226/0227
Schedule 18

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R20/L3331 T389-013	62235-0062 LT		Pcl 24845 Sec TBF; Pt NW ¼ Sec 5 McIntyre Firstly: Pt 9 to 20, 55R-8681; S/T easement in favour of the Corporation of the City of Thunder Bay over Pt 10, 13, 16, 19, 55R-8681; Secondly: Pt 5, 55R8681; S/T LPA76929; LT228151. Thunder Bay		228.1 x 5.0 (0.22) 228.1 x 5.0 (0.22)
R21/L3332 T389-012	62235-0096 LT		Pcl 26133A Sec TBF Firstly: Pt NW ¼ Sec 5 McIntyre Pt 3, 55R6125 Secondly: SRO S½ of W½ of NW¼ Sec 5 McIntyre; Thirdly: SRO E½ of NW¼ Sec 5 McIntyre except Pt 1 55R-6125, Pt 1, 2 55R-6622, Pt 1, 55R-6761, Pt 1, 55R-5769 S/T LPA76930; LT226649 Thunder Bay		284.9 x 5.0 (0.15) 332.3 x 5.0 (0.17)
R22/L3333 T389-013	62235-0066 LT		Pcl 4870 Sec TBF; Pt NE¼ Sec 6 McIntyre as in LPA10845 except LPA12180; Pt 1 & 2, 55R-8185 Pt 1 to 4, 55R-8681, Pt I, 55R-11741; S/T LPA76929; LT226648 Thunder Bay		188.2 x 5.0 (0.10) 140.8 x 5.0 (0.07)
R23/L3334 T389-014	62235-0030 LT		Pcl 2718 Sec TBF; SE ¼ Sec 6 McIntyre except Pt 1, 2, 4 to 7, 55R-8734, Pt 1 to 4, 55R-10787 S/T LPA76928, LT226647 Thunder Bay		531.8 x 5.0 (0.27) 529.5 x 5.0 (0.26)
R24/L3335 T389-014	62235-0095 LT		Pcl 26116 Sec TBF; Pt SE¼ Sec 6 McIntyre Pt 1, 55R-8734; Pt 1, 3, 4, 55R-10787 S/T LPA76928, LT226647 Thunder Bay		343.9 x 5.0 (0.18)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
(Replacement NPS 16" Pipeline)

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File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R25/L	62235-0031 LT		Pcl 17583 Sec TBF; Pt SE¼ Sec 6 McIntyre Pt 1, 55R02570 Thunder Bay		302.8 x 5.0 (0.16) 40.0 x 10.0 (0.04)
R26/L3336 T389-015	62234-0007 LT		Pt NE Subdivision Sec 17 McIntyre SRO as in TBR186549 except Pts 1 & 2, 55R-2830 and Pts 1, 2, 3 & 4, 55R-3687; S/T PTA122419 TBR291989 Thunder Bay		93.2 x 5.0 (0.05) 810.6 x 5.0 (0.41) 40.0 x 10.0 (0.04)
R27/L	62234-0006		Pt NE Subdivision Sec 17 McIntyre SRO Pt 2, 55R-2830 and Pt 2, 55R-3687 Thunder Bay		x 5.0
R28/L3337 T389-016	62234-0035 LT		Pt SE¼ Sec 17 McIntyre as in PTA116261 except Pt 1, 55R-7420; S/T PTA119814, TBR292530 Thunder Bay		94.3 x 5.0 (0.05) 199.2 x 5.0 (0.1) 40.0 x 10.0 (0.04)
R29/L3338 T389-017	62234-0042 LT		Pt SE¼ Sec 17 McIntyre, Pt SW Subdivision Sec 17 McIntyre SRO, Pt 6, 55R-4099; Pt 1, 55R-10218, TBR230720 & TBR232732 except Pts 1 to 5, 55R-9061; S/T MCI7024, PTA119813, TBR291988 Thunder Bay		615.9 x 5.0 (0.31) 94.4 x 5.0 (0.05) 40.0 x 10.0 (0.12) 40.0 x 10.0 (0.12) 40.0 x 10.0 (0.12)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
(Replacement NPS 16" Pipeline)

EB-2012-0226/0227
Schedule 18

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R30/L	62324-0060LT		Lot 15-16 PI 648 McIntyre Thunder Bay		161.6 x 5.0 (0.08)
R31/L	62234-0061 LT		Lot 17 PI 648 McIntyre Thunder Bay		80.8 x 5.0 (0.04)
R32/L	62234-0062 LT		Lt 18 PL 648 McIntyre Thunder Bay		80.8 x 5.0 (0.04)
R33/L	62234-0063 LT		Lt 19 PI 648 McIntyre Thunder Bay		80.8 x 5.0 (0.04)
R34/L	62234-0064 LT		Lt 20 PI 648 McIntyre Thunder Bay		80.8 x 5.0 (0.04)
R35/L	62234-0065 LT		Lt 21, PI 648 McIntyre Thunder Bay		89.9 x 5.0 (0.05)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
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File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R36/L T389-018	62234-0082 LT		Pt Mining Location 21 White's Survey Sept 1867 McIntyre as in TBR416350; S/T PTA119818 amended by PTA122420 S/T TBR291986 Thunder Bay		80.9 x 5.0 (0.04)
R37/L	62234-0094 LT		Pt Mining Location 21 White's Survey Sept 1867 McIntyre as in TB203353 Thunder Bay		242.3 x 5.0 (0.13)
R38/L	62234-0092 LT		Pt Mining Location 21 White's Survey Sept 1867 McIntyre as in TB352458 Thunder Bay		irreg. x 10.0 (0.04)
R39/L	62234-0136 LT		Pt Mining Location 21 White's Survey Sept 1867 McIntyre as in TBR347552 Thunder Bay		
R40/L	62234-0105 LT		Lt 8 Pl 832 McIntyre Thunder Bay		irreg. x 10.0 (0.04)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
(Replacement NPS 16" Pipeline)

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File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R41/L	62234-0214 LT		Pt of Mining Location 21, White's Survey Sept 1867 McIntyre, designated as Pt 5 on 55R-13104 Except Pts 1, 2, 3, 4, 5, 6 on 55R-13273 Thunder Bay		67.0 x 5.0 (0.04)
R42/L	62234-0206 LT		Pt Mining Location 21 White's Survey Sept 1867 McIntyre designated as Pt 4 on 55R-13104 Thunder Bay		63.0 x 5.0 (0.04)
R43/L	62234-0208 LT		Pt Mining Location 21 White's Survey Sept 1867 McIntyre Pt 2 & 3, 55R-13104 S/T TBR375266 Thunder Bay		197.0 x 5.0 (0.10)
R44/L	62234-0125 LT		Pt Mining Location 21 White's Survey Sept 1867 McIntyre as in TBR163414 except Pts 1 & 2, 55R-7733 Thunder Bay		152.6 x 5.0 (0.08)
R45/L T389-020	62234-0146 LT		Lt 42 Pl 466 McIntyre S/T Debts in TBR403368 S/T PTA119817, TBR291987 Thunder Bay		285.8 x 5.0 (0.15) 40.0 x 10.0 (0.04)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
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File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R46/L T389-021	62180-0213 LT		Pt Mining Location Q.H.P. Savigny's Survey McIntyre SRO as in TBR403368 except Pt 1 to 3, 55R-11783; S/T debts in TBR403368; S/T PTA106443; S/T PTA119819, TBR291987; TBR427776 Thunder Bay S/T ease in Gross over Pt 1 PI 55R-9014 as in TY28722		40.0 x 10.0 (0.12) 40.0 x 10.0 (0.12) 40.0 x 10.0 (0.12) 152.9 x 5.0 (0.08) 451.7 x 5.0 (0.24) 213.9 x 5.0 (0.11)
R47/L T389-022	62180-0062 LT		Lt 9, PI 267 McIntyre except MC15441 Pt Mining Location Q.H.P. Savigny's Survey McIntyre as in TBR292875 (Secondly) S/T PTA119816 Thunder Bay		403.8 x 5.0 (0.21)
R48/L3394	62180-0393 LT		Pt Lt 1 PI 267 McIntyre Pt 3, 55R-122330 Thunder Bay	irreg x 15.0 (0.04)	45.0 x 5.0 (0.08) irreg x 40.0 (0.22)
R49/L3395	62251-0003 LT		Lt 13 PI 398 McIntyre S/t debts in TBR264872 & TBR323317 S/T spousal interest in TBR323317 Thunder Bay	irreg x (0.01)	irreg x (0.02)
R50/L	62251-0021 LT		Lt 1 PI 561 McIntyre; Pt Lt 2 PI 561 McIntyre as in TBR291693 (Secondly) S/T spousal interest in TBR323355 S/T debts in TBR32355 Thunder Bay	irreg x 10.7 (0.03)	irreg x irreg (0.04) 135.6 x 5.0 (0.04) 40.0 x 10.0 (0.04)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
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EB-2012-0226/0227
Schedule 18

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R51/L	62251-0024 LT		Lot 4, 6-7 Pl 561 McIntyre Thunder Bay		42.4 x 5.0 (0.03) 40.0 x 10.0 (0.04)
R52/L	62251-0025 LT		Pt Lt 5 Pl 561 McIntyre Thunder Bay		42.6 x 5.0 (0.03) 40.0 x 10.0 (0.04)
R53/L	62251-0038 LT		Pt Lt 9 Pl 398 McIntyre Pt 1, 55R-4609 Thunder Bay		46.3 x 5.0 (0.03) 40.0 x 10.0 (0.04)
R54/L	62251-0039 LT		Pt Lt 9 Pl 398 McIntyre Pt 2, 55R-4609 Thunder Bay		111.9 x 5.0 (0.06)
R55/L	62251-0061 LT		Pt Lt 8 Pl 398 McIntyre Thunder Bay		198.2 x 5.0 (0.10)
R56/L	62251-0063 LT		Lt 6 Pl 398 McIntyre Thunder Bay		188.1 x 5.0 (0.10)
			l Rd		
R57/L	62251-0064 LT		Lt 5 Pl 398 McIntyre Thunder Bay		147.2 x 5.0 (0.08)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
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File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
R58/L	62251-0068 LT		Pt Lt 4 Pl 398 McIntyre as in TBR425356 Thunder Bay		78.7 x 5.0 (0.04)
R59/L	62251-0069 LT		Pt Lt 4 Pl 398 McIntyre as in TBR377063 Thunder Bay		78.7 x 5.0 (0.04)
R60/L	62251-0070 LT		Lt 3 Pl 398 McIntyre Thunder Bay		157.3 x 5.0 (0.08)
R61/L	62251-0071 LT		Pt Lt 2 Pl 398 McIntyre TBR234932 Thunder Bay		78.7 x 5.0 (0.04)
R62/L	62251-0072 LT		Pt Lt 2 Pl 398 McIntyre PTA139501 Thunder Bay		78.7 x 50.0 (0.04)
R63/L	62251-0327 LT		Pt Lt 1 Pl 398 McIntyre as in TBR155941 S/T execution 00-00615 if enforceable Thunder Bay		74.0 x 5.0 (0.09)
R64/L	62251-0074 LT		Pt Lt 1 Pl 398 McIntyre as in PTA138622 Thunder Bay		36.8 x 5.0 (0.02)

THUNDER BAY LINE LIST
TCPL/Union Lk Td Stn to Belrose Rd Stn
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R65/L	62251-0075 LT		Pt Lt 1 Pl 398 McIntyre as in PTA114091 Thunder Bay		36.8 x 5.0 (0.02)
R66/L	62251-0076 LT		Pt Lt 37 Pl 778 McIntyre; Pt SW¼ Sec 49 McIntyre; Pt NW¼ Sec 49 McIntyre as in TBR225010 Thunder Bay	45.7 x 60.9 (0.278)	628.6 x 5.0 (0.32)

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N1	62245-0233 LT		Pt NW ¼ Sec 49 McIntyre; Pt Sec 48 McIntyre Pt 1 & 2, 55R6925 except Mining rights as in TY61258 Thunder Bay		20.0 x 10.0 (0.02)
N2	62245-0198 LT		Pt NW¼ Sec 49 McIntyre; Pt Sec 48 McIntyre as in TBR151205 Thunder Bay		20.0 x 10.0 (0.02)
N3	62267-0217 LT		Lt 44 Pl 778 McIntyre except 55R10142; S/T MC19629, TBR266472, TBR385998 Thunder Bay	806.02 x irre (1.21)	30.0 x 15.0 (0.05) 10.0 x irreg (0.07) 30.0 x 15.0 (0.05) irreg x 5.0 (0.01) 806.52 x 3.0 (0.24)
N4	62267-0321 LT		Lt 23 & Pt Lt 24 PL 778 McIntyre Pts 6 & 7 55r11975 except Pts 1 & 2, 55R12912 Subject to an easement as in MC19847 Subject to an easement as in MC19721 Subject to an easement as in TBR267066 Subject to an easement as in TBR268276		30 x 15 (0.05)

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N5	62267-0258 LT		Pt NW ¼ Sec54 McIntyre as in TBR142168 Except Pt 1, 2, 3, & 5 55R-762 Thunder Bay	irreg x 15.0 (0.09)	irreg (0.14) 59.54 x 3.0 (0.02)
N6	62117-0034 LT		Pcl 24140 Sec TBF; Pt NE ¼ Sec 54 McIntyre SRO Pt 9 PAR103 except Pt 3, 56R747 Thunder Bay		irreg x 15.0 (0.22)
N7	62117-0076 LT		Pt NE 1/4 54 McIntyre as in LPA58186 (Secondly & Thirdly) except Pt 5, 55R-11042) Pt 1, 55R-6152 & Pt 2 55R-747 Thunder Bay		20.0 x 10.0 (0.02)
N8	62117-0059 LT		Pcl 11886 Sec TBF; Pt NE ¼ Sec 54 McIntyre as in LPA58186 (3rdly); N of Pt 8, 55R11162 & S of Pt 8 PAR103 Thunder Bay	352.5 x 15.0 (0.53)	
N9	62117-0041		Pcl 23781 Sec TBF; Pt NE ¼ Sec 54 McIntyre SRO Pt 4 PR 103 Thunder Bay		128.12 x 3.0 (0.04)

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N10	62117-0042 LT		Pcl 6501 Sec TBF; Pt NE¼ Sec 54 McIntyre SRO Pt 5 PR103 Thunder Bay		370.9 x 3.0 (0.11)
N11	62117-0043 LT		Pcl 11886 Sec TBF; Pt NE¼ Sec 54 McIntyre as in LPA58186 S of Pt 8, 55R11162; S/T F93592 Thunder Bay	123.98 x 15.0 (0.19)	irreg (0.07)
N12	62117-0051 LT		Pt SE ¼ Sec 54 McIntyre as in PTA10137 N of Harbour Expressway; S/T PTA121762; S/T TBR247211, TBR408125 Thunder Bay	92.61 x 15.0 (0.14)	
N13	62117-0052 LT		Pcl 25871 Sec TBF; Pt SE ¼ Sec 54 McIntyre SRO Pt 2 to 4, 55R10380 Thunder Bay		irreg x 15.0 (0.13)
	62064-0079 LT		Pcl 3726 Sec PAF; Pt Blk A, Pl M46 McIntyre as amended by Judge's Order No. LPA43033; Pt 1, 2, 3, 4 & 5, 55R4606; S/T LPA67497; LT154212 Thunder Bay		irreg (0.15) irreg (0.07)

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N15	62063-0003 LT		Pcl 5773 Sec PAF Sec 52 McIntyre as in LPA65505; S/T LT156811 Thunder Bay	78.73 X 5.0 (0.04)	27.46 X 3.0 (0.01) 20.09 X 8.2 (0.02)
N16	62063-0496 LT		Pt of SE Subdivision of Sec 52 McIntyre & Pt Bed of McIntyre River adjacent Sec 52 being Pt Water Location TW-178 being Pts 1-10 55R11087 & Pts 1-6, 11, 14, 55R11264 & Pts 1-3, 55R11323 except Pts 2,3 , 6, 7, 9, 10, 12-15 55R11611 & Pts 1-5, 7-11, 17, 55R11480 & pts 2-20, 22-24, 26, 27, 55R12121 Thunder Bay	72.54 x 15.0 (0.11)	
N17	62063-0495 LT		PT of SE Subdivision of Sec 52, McIntyre & Pt Bed of McIntyre River adjacent to Sec 52 being Pt Water Location TW-178 being Pts 2-20, 22-24, 26, 27, 55R12121 Thunder Bay	193.93 x 15.0 (0.29)	193.93 x 40.0 (0.775)
N18	62063-0044 LT		PT SE Subdivision SEC 52 McIntyre as in PAC3859 except PAC5514; S/T RX50E Thunder Bay	67.87 x 15.0 (0.10)	

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N19	62063-0045 LT		Pcl 22570 SEC TBF; Pt Water It Location TW178 McIntyre; Pt Bed of McIntyre River; Pt SEC 52 McIntyre Pt 10 & 11, 55R4919 Thunder Bay	33.02 x 15.0 (0.049)	
N20	62063-0046 LT		Pcl 16184 SEC TBF; Pt SEC 52 McIntyre and the Original Rdal in front thereof Pt 12, 55R1092 except Pt 5, 55R9336; Pt 3 & 4, 55R4472 & Pt of Pt 12, 55R1092 lying N & E of Pt 5, 55R9336 Thunder Bay		518.61 x 5.0 (0.259) 20.0 x 10.0 (0.02)
N21	62063-0047 LT		Pcl 25708 SEC TBF McIntyre; Pt 5, 55R9336 Thunder Bay		44.21 x 5.0 (0.02) 20.0 x 10.0 (0.02)
N22	62063-0048 LT		Pcl 16184 SEC TBF; Pt SEC 52 McIntyre & the Original Rdal in front thereof Pt of Pt 12, 55R1092 lying N & E of Pt 5, 55R9336 Thunder Bay		41.07 x 5.0 (0.02) 20.0 x 10.0 (0.02)

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N23	62063-0055		Pcl 16184 Sec TBF Pt Sec 52 McIntyre and the original Rdal in front thereof Pt 11, 55R1092 Except Pt 8, 9, 10, 11, 12, 19, 55R9472 Thunder Bay		40.0 x 40.0 (0.16)
N24	62063-0457 LT		Lt 2-7 Pl W769 Neebing additional; Blk A, B, C D, E and F Pl W769 Neebing additional except OFW56158; S/T RX44, partially released by TBR238907; S/T OFW56321; TBR238906 Thunder Bay	irreg x 15.0 (0.44)	irreg x 10.0 (0.01) 244.8 x 3.0 (0.07)
N25	62063-0455 LT		Pt Lt 1, Pl W769 Neebing Additional as in TBR418337 & Pt 7, RX44 as in F138921 s/t OFW56321; OFW62135E; RX44 TBR214512E; TBR220299; TBR226672 TBR254337E Thunder Bay	144.79 x 15.0 (0.22)	144.79 x irreg (0.05)
N26	62060-0171 LT		Railway Reserve Pl W54 Neebing additional E of Mtabish St; Plt Lt 1, Con H Neebing additional as in OFW2216 & OFW2606 S of OFW2858 except 55R11645 as shown on Plan of Survey 128; Thunder Bay	irreg. X 15.0 (0.16)	irreg. X 3.0 (0.01) irreg. X 3.0 (0.01)
N27	62060-0179 LT		Pt Lt 1 Con H Beening additional as in OFW2216 & OFW2606 E of 55R11645 S/T RX44E Thunder Bay	irreg. (0.07)	irreg (0.08)

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N28	62060-0188 LT		Pt Lt 1, Con H Beening additional Pts 2, 3, 6, & 7, 55R11645 Thunder Bay	irreg. (0.10)	irreg. (0.02)
N29	62060-0175 LT		Pcl 26838 SEC TBF; PT Rdal along N Shore of Kaministiquia River Neebing additional Pt 1 55R11645; Pt Rdal btn Con H & K Neebing additional PT 10, 55R11645 Thunder Bay	irreg. X 15.0 (0.03)	irreg. X 10.0 (0.005)
N30	62248-0021 LT		PT West Part Lt 16 Con K Neebing additional Pt Lt 1 Con 9 Neebing additional; Pt Rdal btn Con G & Con K Neebing additional closed by FEW8710 as in TBR413146 E of Pt 12, 55R11643; s/T RX49, TBR233589 Thunder Bay	irreg. X 5.0 (0.11)	irreg. X 10.0 (0.16) 40.0 x 10.0 (0.04) 20.0 x 10.0 (0.02)
N31	62248-0025 LT		Pt Lt 1 Con G Neebing additional; Pt L1 1-3 Con F Neebing additional; Pt Part of Lot 4 Con F being all the residue of said Lot not granted to Adam Oliver et al April 1st 1877 Neebing additional; Pt Lt 5 Con F Neebing additional as in FEW4069, FEW6993 except Pt 7 to 10 55R11643, FEW8728, FEW8942, OFW43438 s/t TBR202566 Thunder Bay	irreg. (0.06)	

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N32	62248-0154 LT		Pt Rdal btn Con G & Con K Neebing additional (closed by TBR202169) being 110th Av aka 10th Ave Pt 12, 13, 14, 55R2639 & Pt & Pt 1, 55R3086; s/T TBR202566; S/T interest of the Municipality Thunder Bay	143.86 x 15.0 (0.22)	
N33	62248-0019 LT		Lt 10-15, Con K Neebing additional; Pt East Pt Lt 16 Con K Neebing additional, as in FEW5959 Pt 66 ft rdal Neebing additional in Front of Lot 10 to 16 Con K as in FEW7994; Pt Rdal Btn Lot 11 & Lt 12 Con K Neebing additional as in FEW8068; S/T TBR202566; S/T interest of the Municipality Thunder Bay	irreg. X 5.0 (0.27)	620.54 x 5.0 (0.31) 462.91 x 3.0 (0.14)
N34	62248-1132 LT		Lt 37-144 PI W229 Neebing additional; Lt 4-9 Con K Neebing additional except Pt 6 to 9 55R3080 & OFW39618; Lane PI W229 Neebing additional abutting Lot 37 to 54 PI W229; Lane PI W229 Neebing additional abutting Lt 55 to 72 PI W229; Lane PI W229 Neebing additional abutting Lt 73 to 90 PI W 229 Neebing additional abutting Lt 92 to 107 PI W229 except Pt 9, 55R3254; 113th St (formerly 13th St) PI W229 Neebing additional (closed By TBR225254); 111th Av (formerly 11th Av) PI W229 Neebing additional (closed by TBR225254) except Pt 7, 55R2582; 114th St (formerly 14th St) PI W229 Neebing additional (closed By TBR225254); except Pt 5, 55R3254 Rdal btn Con C, Con D & Con K Neebing additional (closed by TBR225254) being 110th Ave aka 10th Av btn 106th St & Pt 26, 55R3905 Rdal btn Lt 7 & Lt 8 Con K Neebing additional (closed by TBR225254) being 108th St aka 8th St btn 110th St & W of E limit Pt 14, 55R3254 S/T RX 45; RX 47, TBR428810 Thunder Bay	1392.38 x 15.0 (2.09) irreg. X 5.0 (0.01)	1391.89 x 3.0 (0.42) irreg. X 3.0 (0.06)

**Thunder Bay Line List
Belrose Station to OPG Mission Island
(New NPS 12 Pipeline)**

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)
N35	62248-0832 LT		Pt lane W229 Neebing additional (closed by OFW47878 & TBR225254 as in OWF71149 (Secondly); Thunder Bay	4.27 x 9.23 (0.003)	4.27 x 3.0 (0.001)
N36	62248-0831 LT		Pt 114th St (formerly 14th St PL W229) Neebing additional (closed by OFW4748 & TBR225254 as in OFW71149 (Firstly); Thunder Bay	20.11 x 9.23 (0.292) 22.40 x 3.0 (0.04)	irreg (0.04)
N37	62248-0828 LT		Lt 1-36, PL W229 Neebing Additional; Pt Lt 1-3 Con A Neebing Additional; Pt Lt 1-2 Con K Neebing Additional; Pt 111th Av (formerly 11th Av) PL W229 Neebing Additional (closed by TBR201108); Pt 115th St (formerly 15th St) PL W229 Neebing Additional (closed by TBR201108); Pt Rdal btn Con A & Con K Neebing Additional (closed by OFW25869) being 110th Av aka 10th Av; Pt 66 FT Rdal Neebing Additional in Front of Lt 1 & 2 Con K (closed by OFW25869) Pt 1 to 12 55R11043; s/t TBR428810; Thunder Bay; together with an easement over Pt Lts 8 and 9 Con K Neebing Additional Pts 1 to 8 55R12785 and Pt Rdal btn Lt 7 & Lt 8 Con K Neebing Additional Pts 9 to 13 55R12785 as in TY94102	60.96 x 48.77 (0.29) 150.0 x 5.0 (0.075)	



For Internal Use Only
Lands File No.:
Cheque No.:
Project:
Acct No.:

PIPELINE EASEMENT

(the "Easement")

Between

(herein called the "Transferor")

and

UNION GAS LIMITED

(herein called the "Transferee")

This Easement is an easement in Gross

WHEREAS the Transferor is the owner in fee simple of those lands and premises more particularly described as:
PIN: Insert Legal (hereinafter called the "Transferor's Lands").

The Transferor does hereby GRANT, CONVEY, TRANSFER AND CONFIRM unto the Transferee, its successors and assigns, to be used and enjoyed as appurtenant to all or any part of the lands of the Transferee's lands the right, liberty, privilege and easement on, over, in, under and/or through a strip of the Transferor's Lands more particularly described as being PIN: Insert Legal Being Part of the PIN (hereinafter referred to as the "Lands") to survey, lay, construct, maintain, inspect, patrol, alter, remove, replace, reconstruct, repair, move, keep, use and/or operate one Pipe line for the transmission of pipeline quality natural gas as defined in The Ontario Energy Board Act S.O. 1998 (hereinafter referred to as the "Pipeline") including therewith all such buried attachments, equipment and appliances for cathodic protection which the Transferee may deem necessary or convenient thereto, together with the right of ingress and egress at any and all times over and upon the Lands for its servants, agents, employees, those engaged in its business, contractors and subcontractors on foot and/or with vehicles, supplies, machinery and equipment for all purposes necessary or incidental to the exercise and enjoyment of the rights, liberty, privileges and easement hereby granted. The Parties hereto mutually covenant and agree each with the other as follows:

1. In consideration of the sum of DOLLARS (\$) of lawful money of Canada (hereinafter called the "Consideration"), which sum is payment in full for the rights and interest hereby granted and for the rights and interest, if any, acquired by the Transferee by expropriation, including in either or both cases payment in full for all such matters as injurious affection to remaining lands and the effect, if any, of registration on title of this document and where applicable, of the expropriation documents, subject to Clause 12 hereof to be paid by the Transferee to the Transferor within 90 days from the date of these presents or prior to the exercise by the Transferee of any of its rights hereunder other than the right to survey (whichever may be the earlier date), the rights, privileges and easement hereby granted shall continue in perpetuity or until the Transferee, with the express written consent of the Transferor, shall execute and deliver a surrender thereof . Prior to such surrender Transferee shall remove all debris as may have resulted from the Transferee's use of the Lands from the Lands and in all respects restore the Lands to it's previous productivity and fertility so far as is reasonably possible , save and except for items in respect of which compensation is due under Clause 2. hereof. Transferor and Transferee hereby agree that nothing herein shall oblige Transferee to remove the Pipeline from the Lands as part of Transferee's obligation to restore the Lands.
2. The Transferee shall make to the Transferor (or the person or persons entitled thereto) due compensation for any damages to the Lands resulting from the exercise of any of the rights herein granted, and if the compensation is not agreed upon by the Transferee and the Transferor, it shall be determined by arbitration in the manner prescribed by the Expropriations Act, R.S.O. 1990, Chapter E-26 or any Act passed in amendment thereof or substitution therefore. Any gates, fences and tile drains curbs, gutters, asphalt paving, lockstone, patio tiles interfered with by the Transferee shall be restored by the Transferee at its expense as closely as reasonably possible to the condition and function in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice and applicable government regulations.
3. The Pipeline (including attachments, equipment and appliances for cathodic protection but excluding valves, take-offs and fencing installed under Clause 9 hereof) shall be laid to such a depth that upon completion of installation it will not obstruct the natural surface run-off from the Lands nor ordinary cultivation of the Lands nor

any tile drainage system existing in the Lands at the time of installation of the Pipeline nor any planned tile drainage system to be laid in the Lands in accordance with standard drainage practice, if the Transferee is given at least thirty (30) days notice of such planned system prior to the installation of the pipeline; provided that the Transferee may leave the Pipeline exposed in crossing a ditch, stream, gorge or similar object where approval has been obtained from the Ontario Energy Board or other Provincial Board or authority having jurisdiction in the premises. The Transferee agrees to make reasonable efforts to accommodate the planning and installation of future tile drainage systems following installation of the pipeline so as not to obstruct or interfere with such tile installation.

4. As soon as reasonably possible after the construction of the Pipeline, the Transferee shall level the Lands and unless otherwise agreed to by the Transferor, shall remove all debris as may have resulted from the Transferee's use of the Lands therefrom and in all respects restore the Lands to its previous productivity and fertility so far as is reasonably possible, save and except for items in respect of which compensation is due under Clause 2 hereof.

5. The Transferee shall indemnify the Transferor for any and all liabilities, damages, costs, claims, suits and actions which are directly attributable to the exercise of the rights hereby granted, except to the extent of those resulting from the gross negligence or wilful misconduct of the Transferor.

6. In the event that the Transferee fails to comply with any of the requirements set out in Clause 2, 3, or 4 hereof within a reasonable time of the receipt of notice in writing from the Transferor setting forth the failure complained of, the Transferee shall compensate the Transferor (or the person or persons entitled thereto) for any damage, if any, necessarily resulting from such failure and the reasonable costs if any, incurred in the recovery of those damages.

7. Except in case of emergency, the Transferee shall not enter upon any of the Transferor's Lands, other than the Lands, without the consent of the Transferor. In case of emergency the right of entry upon the Transferor's Lands for ingress and egress to and from the Lands is hereby granted. The determination of what circumstances constitute an emergency, for purposes of this paragraph is within the absolute discretion of the Transferee, but is a situation in which the Transferee has a need to access the pipeline in the public interest without notice to the Transferor, subject to the provisions of paragraph 2 herein. The Transferee will, within 72 hours of entry upon such lands, advise the Transferor of the said emergency circumstances and thereafter provide a written report to Transferor with respect to the resolution of the emergency situation. The Transferee shall restore the lands of the Transferor at its expense as closely as reasonably practicable to the condition in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice.

8. The Transferor shall have the right to fully use and enjoy the Lands except for planting trees over the lesser of the Lands or a six (6) metre strip centered over the Pipeline, and except as may be necessary for any of the purposes hereby granted to the Transferee, provided that without the prior written consent of the Transferee, the Transferor shall not excavate, drill, install, erect or permit to be excavated, drilled, installed or erected in, on, over or through the Lands any pit, well, foundation, pavement, building, mobile homes or other structure or installation. Notwithstanding the foregoing the Transferee upon request shall consent to the Transferor erecting or repairing fences, hedges, pavement, lockstone constructing or repairing tile drains and domestic sewer pipes, water pipes, and utility pipes and constructing or repairing lanes, roads, driveways, pathways, and walks across, on and in the Lands or any portion or portions thereof, provided that before commencing any of the work referred to in this sentence the Transferor shall (a) give the Transferee at least (30) clear days notice in writing describing the work desired so as to enable the Transferee to evaluate and comment on the work proposed and to have a representative inspect the site and/or be present at any time or times during the performance of the work, (b) shall follow the instructions of such representative as to the performance of such work without damage to the Pipeline, (c) shall exercise a high degree of care in carrying out any such work and, (d) shall perform any such work in such a manner as not to endanger or damage the Pipeline as may be required by the Transferee.

9. The rights, privileges and easement herein granted shall include the right to install, keep, use, operate, service, maintain, repair, remove and/or replace in, on and above the Lands any valves and/or take-offs subject to additional agreements and to fence in such valves and/or take-offs and to keep same fenced in, but for this right the Transferee shall pay to the Transferor (or the person or persons entitled thereto) such additional compensation as may be agreed upon and in default of agreement as may be settled by arbitration under the provisions of The Ontario Energy Board Act, S.O. 1998, or any Act passed in amendment thereof or substitution therefore. The Transferee shall keep down weeds on any lands removed from cultivation by reason of locating any valves and/or take-offs in the Lands.

10. Notwithstanding any rule of law or equity and even though the Pipeline and its appurtenances may become annexed or affixed to the realty, title thereto shall nevertheless remain in the Transferee.

11. Neither this Agreement nor anything herein contained nor anything done hereunder shall affect or prejudice the Transferee's rights to acquire the Lands or any other portion or portions of the Transferor's lands under the provisions of The Ontario Energy Board Act, S.O. 1998, or any other laws, which rights the Transferee may exercise at its discretion in the event of the Transferor being unable or unwilling for any reason to perform this Agreement or give to the Transferee a clear and unencumbered title to the easement herein granted.

12. The Transferor covenants that he has the right to convey this easement notwithstanding any act on his part, that he will execute such further assurances of this easement as may be requisite and which the Transferee may at its expense prepare and that the Transferee, performing and observing the covenants and conditions on its part

to be performed, shall have quiet possession and enjoyment of the rights, privileges and easement hereby granted. If it shall appear that at the date hereof the Transferor is not the sole owner of the Lands, this Indenture shall nevertheless bind the Transferor to the full extent of his interest therein and shall also extend to any after-acquired interest, but all moneys payable hereunder shall be paid to the Transferor only in the proportion that his interest in the Lands bears to the entire interest therein.

13. In the event that the Transferee fails to pay the consideration as hereinbefore provided, the Transferor shall have the right to declare this easement cancelled after the expiration of 15 days from personal service upon the Secretary, Assistant Secretary or Manager, Lands Department of the Transferee at its Executive Head Office in Chatham, Ontario, (or at such other point in Ontario as the Transferee may from time to time specify by notice in writing to the Transferor) of notice in writing of such default, unless during such 15 day period the Transferee shall pay the said consideration; upon failing to pay as aforesaid, the Transferee shall forthwith after the expiration of 15 days from the service of such notice execute and deliver to the Transferor at the expense of the Transferee, a valid and registerable release and discharge of this easement.

14. All payments under these presents may be made either in cash or by cheque of the Transferee and may be made to the Transferor (or person or persons entitled thereto) either personally or by mail. All notices and mail sent pursuant to these presents shall be addressed to the Transferor at _____ and to the Transferee at Union Gas Limited, P.O.Box 2001, 50 Keil Drive North, Chatham, Ontario N7M 5M1. Attention: Manager, Lands or to such other address in either case as the Transferor or the Transferee respectively may from time to time appoint in writing.

15 The rights, privileges and easement hereby granted are and shall be of the same force and effect as a covenant running with the land and this Indenture, including all the covenants and conditions herein contained, shall extend to, be binding upon and enure to the benefit of the heirs, executors, administrators, successors and assigns of the Parties hereto respectively; and, wherever the singular or masculine is used it shall, where necessary, be construed as if the plural, or feminine or neuter had been used, as the case may be.

16. The Transferor hereby acknowledges that this transfer will be registered electronically and the Transferor hereby authorizes the Transferee to complete the registration of this transfer.

DATED this day of January 2012

Name & Title:

I have authority to bind the corporation

Name & Title:

I have authority to bind the corporation

Address:

UNION GAS LIMITED

Name: Mervyn R. Weishar
Senior Lands Agent

I have authority to bind the Corporation

Additional Information: (if applicable)

Solicitor:

Telephone:

Municipality of Chatham-Kent

Province of Ontario

DECLARATION REQUIRED UNDER
SECTION 50 OF THE PLANNING
ACT, R.S.O. 1990, as amended

I, Mervyn R. Weishar, of the City of Municipality of Chatham-Kent , in the Province of Ontario.

DO SOLEMNLY DECLARE THAT

1. I am, Senior Lands Agent Lands Department of Union Gas Limited, the Transferee in the attached Grant of Easement and as such have knowledge of the matters herein deposed to.
2. The use of or right in the land described in the said Grant of Easement is being acquired by Union Gas Limited for the purpose of a hydrocarbon transmission line within the meaning of part VI of the Ontario Energy Board Act , 1998.

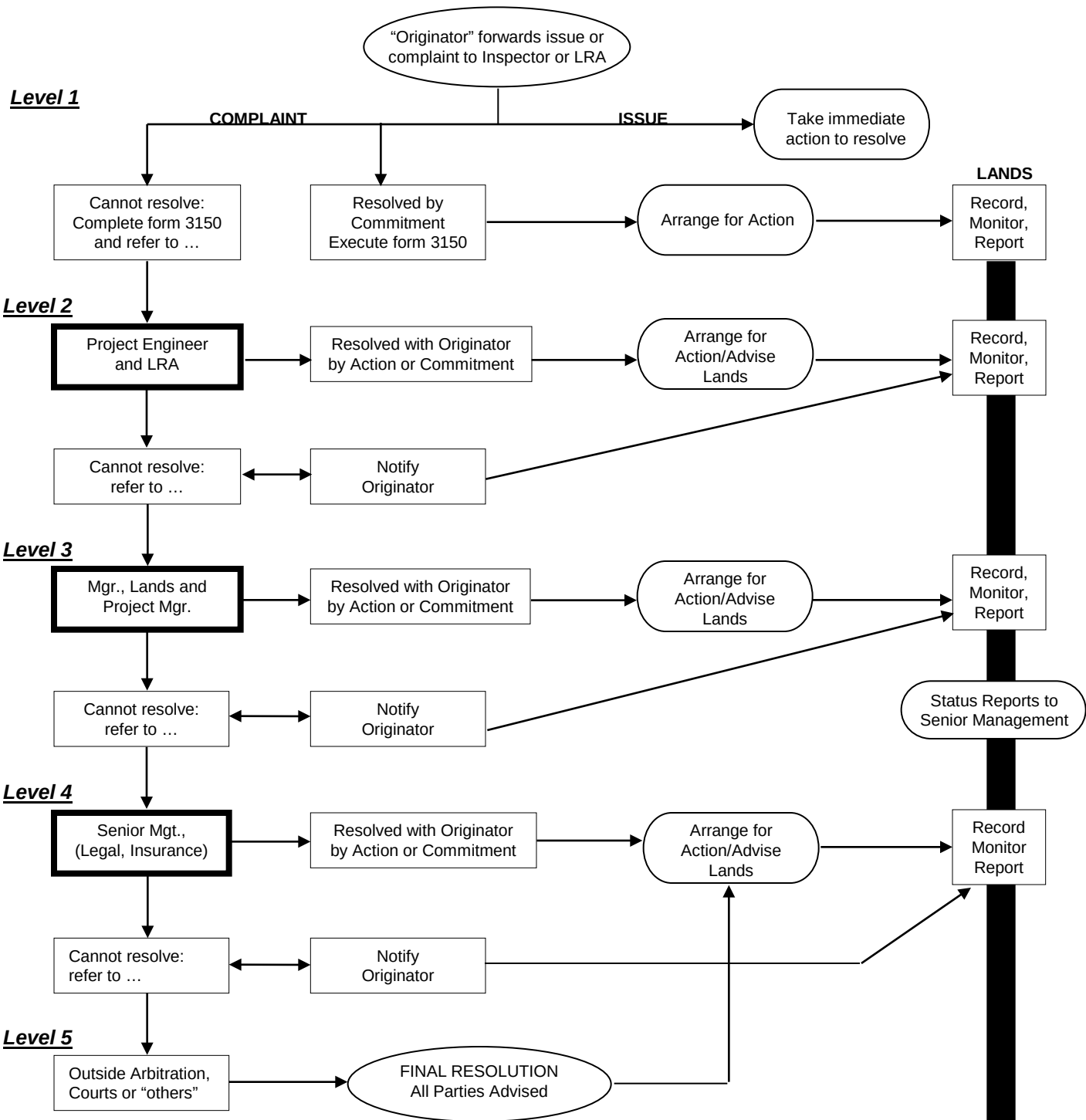
AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath, and by virtue of The Canada Evidence Act.

DECLARED before me at the
Municipality of Chatham-Kent,
in the Province of Ontario

this day of January ,2012

A Commissioner, etc.

Process Chart: Landowner Complaint Resolution System



Notes:

1. "Originator" of complaint or issue may be landowner or company representative.
2. Parties indicated in heavy outlined boxes shall assume responsibility for actions subsequently required in the resolution process. Parties identified in brackets may only be required for resolution or specific technical concerns.
3. "L.R.A." refers to Landowner Relations Agent.
4. "Outside Arbitration" includes the Board of Negotiation, O.M.B. and O.E.B. "Others" refers to other regulatory bodies and tribunals.

LANDOWNER COMPLAINT RESOLUTION SYSTEM EXPLANATION OF PROCESS CHART

Key Definitions

Originator – The originator of a complaint or issue is the landowner or Union Gas personnel who initiates a complaint or issue by making it known to the Landowner Relations Agent or a company inspector.

Landowner Relations Agent (LRA) – A person assigned on a full time or part time basis to record, monitor, and ensure follow-up on any complaint or issue received by Union related to construction, to address questions and concerns of the landowners, and to act as a liaison between landowners and the contractor and engineering personnel.

Issue – A concern of a landowner which can be resolved within three (3) working days. Immediate action is taken to resolve such matters.

Complaint – A concern of a landowner which cannot be resolved within three (3) working days.

Commitment – If an issue or complaint is resolved at any level of the Complaint Resolution system through the efforts and liaison activities of the Landowner Relations Agent or other personnel, the resolution is recorded to ensure proper future follow-up.

Outside Arbitration – includes the Board of Negotiation, O.M.B., and O.E.B.

Others – refers to other regulatory bodies and tribunals

Levels of the Complaint Resolution System

Level 1: The LRA or company inspector receives issues or complaints, and the following can happen:

- a) Immediate action could be arranged by the LRA or inspector to resolve the issue or complaint; or
- b) A complaint can be resolved by a commitment in which case the LRA is responsible for arranging for the committed action and having the commitment recorded in the Complaint Resolution system; or
- c) If a complaint cannot be resolved through the efforts of the LRA or inspector, the applicable form (Form 3150) is completed and then recorded, and the complaint is referred to **Level 2**.

Level 2: The LRA and the Construction Supervisor work together to develop a resolution for the complaint, and the following can happen:

- a) the complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 3**.

Level 3: The Manager, Lands and the Project Manager work together to develop a resolution for the complaint, and the following can happen:

- a) complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 4**;

When complaints reach this level, status reports are generated through the Complaint Resolution System and are forwarded to Senior Management.

Level 4: Senior Management (with possible input from the Legal and Risk and Claims Departments) attempts to develop a resolution to the complaint, and the following can happen:

- a) the complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 5**;

Level 5: Involves the resolution of a complaint by outside arbitration or others, and the following will happen:

A final resolution will occur, all parties will be advised, and any action required will be arranged by the LRA or other Lands Department personnel.

Note: the Complaint Resolution System is used to generate final reports to the Ontario Energy Board

**Stantec**

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

January 28, 2011

File: 160960657

Fort William First Nation
90 Anemki Drive, Suite 200
Thunder Bay ON P7C 4Z2

Attention: Mr. Peter Collins

Dear Mr. Collins:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

In 2005/2006 Union Gas and Stantec Consulting worked on an earlier project to convert the Thunder Bay Generating Station to natural gas. This work involved the completion an environmental assessment for the project and the selection of a preferred route for the pipeline. An application was filed with the Ontario Energy Board (OEB) however before the OEB's review process was complete, the Provincial Government made the decision not to proceed with the conversion at that time.

Today, at the request of Ontario Power Generation, Union Gas is working on preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station.

As part of this new project, Stantec Consulting will undertake a new environmental and cumulative effects assessment of the proposed project. This process will include public consultation with landowners, First Nations, the Métis Nation, government agencies and other local stakeholders -- and is instrumental in the evaluation of various route alternatives for the pipeline and ultimately in the selection of the final preferred route. Based on the information gathered through the environmental assessment process and other factors, the preferred pipeline route may differ from the route which was selected in 2006.

The environmental assessment will begin this winter and the final report, which will discuss the pipeline project only, will be included in an application to the OEB in the summer/fall of 2011. The OEB's review and approval is required before this project can proceed. If approved, construction would begin in 2013 with an in-service date of November 2013.

Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Fort William First Nation is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Fort William First Nation that may affect routing, construction and operation of the proposed pipeline.

January 28, 2011

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory of the study area. Information regarding other proposed developments in the study area is also requested to be provided, for incorporation into the environmental assessment study as a component of a cumulative effects assessment. Please contact us to discuss the most efficient way to obtain this information.

If you have any questions or concerns regarding this project, please do not hesitate to contact the undersigned at 1-866-842-7559.

Sincerely,

STANTEC CONSULTING LTD.



Mark Knight, MA
Environmental Planner
Tel: (519) 836-6966 x218
Fax: (519) 836-2493
Mark.Knight@stantec.com

Attachment: Study Area Map

c. Doug Schmidt, Union Gas

**Stantec**

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

January 28, 2011

File: 160960657

Nishnawbe Aski Nation
710 Victoria Avenue East
Thunder Bay ON P7C 5P7

Attention: Ms. Carol Audet

Dear Ms. Audet:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Nishnawbe Aski Nation is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Nishnawbe Aski Nation that may affect routing, construction and operation of the proposed pipeline.

January 28, 2011

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory of the study area. Information regarding other proposed developments in the study area is also requested to be provided, for incorporation into the environmental assessment study as a component of a cumulative effects assessment. Please contact us to discuss the most efficient way to obtain this information.

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Attachment: Study Area Map

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Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

January 28, 2011

File: 160960657

Métis Nation of Ontario
500 Old St. Patrick Street, Unit 3
Ottawa ON K1N 9G4

Attention: Ms. Melanie Paradis

Dear Ms. Paradis:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Métis Nation of Ontario is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Métis Nation of Ontario that may affect routing, construction and operation of the proposed pipeline.

January 28, 2011

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

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Attachment: Study Area Map

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Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

February 22, 2011
File: 160960657

Ojibways of the Pic River First Nation
78 Pic River Road, Box 193
Heron Bay ON P0T 1R0

Attention: Mr. Roy Michano

Dear Mr. Michano:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Ojibways of the Pic River First Nation is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Ojibways of the Pic River First Nation that may affect routing, construction and operation of the proposed pipeline.

February 22, 2011

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory of the study area. Information regarding other proposed developments in the study area is also requested to be provided, for incorporation into the environmental assessment study as a component of a cumulative effects assessment. Please contact us to discuss the most efficient way to obtain this information.

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Attachment: Study Area Map

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Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

February 22, 2011

File: 160960657

Red Rock Indian Band
P.O. Box 1030
Nipigon ON P0T 2J0

Attention: Mr. Pierre Pelletier

Dear Mr. Pelletier:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Red Rock Indian Band is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Red Rock Indian Band that may affect routing, construction and operation of the proposed pipeline.

February 22, 2011

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

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Attachment: Study Area Map

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Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

February 22, 2011
File: 160960657

Whitesand First Nation
P.O. Box 68
Armstrong ON P0T 1A0

Attention: Mr. Allan Gustafson

Dear Mr. Gustafson:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Whitesand First Nation is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Whitesand First Nation that may affect routing, construction and operation of the proposed pipeline.

February 22, 2011

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Attachment: Study Area Map

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Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

February 22, 2011
File: 160960657

Pic Mobert First Nation
P.O. Box 717
Mobert ON P0M 2J0

Attention: Ms. Johanna Desmoulin

Dear Ms. Desmoulin:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Pic Mobert First Nation is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Pic Mobert First Nation that may affect routing, construction and operation of the proposed pipeline.

February 22, 2011

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Attachment: Study Area Map

c. Doug Schmidt, Union Gas

**Stantec**

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Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
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February 22, 2011
File: 160960657

Sand Point First Nation
684 City Road, Unit 7
Thunder Bay ON P7J 1K3

Attention: Mr. Paul Gladu

Dear Mr. Gladu:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Sand Point First Nation is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Sand Point First Nation that may affect routing, construction and operation of the proposed pipeline.

February 22, 2011

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Attachment: Study Area Map

c. Doug Schmidt, Union Gas

**Stantec**

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February 22, 2011

File: 160960657

Biinjitiwaabik Zaaging Anishinaabek First Nation
501 Spirit Bay Road, General Delivery
MacDiarmid ON P0T 2B0

Attention: Mr. Bartholomew Hardy

Dear Mr. Hardy:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Attachment: Study Area Map

c. Doug Schmidt, Union Gas

**Stantec**

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February 22, 2011
File: 160960657

Pays Plat First Nation
10 Central Place
Pays Plat ON P0T 3C0

Attention: Mr. Xavier Thompson

Dear Mr. Thompson:

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

In 2005/2006 Union Gas and Stantec Consulting worked on an earlier project to convert the Thunder Bay Generating Station to natural gas. This work involved the completion an environmental assessment for the project and the selection of a preferred route for the pipeline. An application was filed with the Ontario Energy Board (OEB) however before the OEB's review process was complete, the Provincial Government made the decision not to proceed with the conversion at that time.

Today, at the request of Ontario Power Generation, Union Gas is working on preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station.

As part of this new project, Stantec Consulting will undertake a new environmental and cumulative effects assessment of the proposed project. This process will include public consultation with landowners, First Nations, the Métis Nation, government agencies and other local stakeholders -- and is instrumental in the evaluation of various route alternatives for the pipeline and ultimately in the selection of the final preferred route. Based on the information gathered through the environmental assessment process and other factors, the preferred pipeline route may differ from the route which was selected in 2006.

The environmental assessment will begin this winter and the final report, which will discuss the pipeline project only, will be included in an application to the OEB in the summer/fall of 2011. The OEB's review and approval is required before this project can proceed. If approved, construction would begin in 2013 with an in-service date of November 2013.

Stantec Consulting is presently compiling an environmental and socio-economic inventory of the pipeline study area. The Pays Plat First Nation is invited to provide comments, regarding the proposed pipeline. Specifically, Stantec is seeking information from the Pays Plat First Nation that may affect routing, construction and operation of the proposed pipeline.

February 22, 2011

Reference: Union Gas to Begin Work on Potential Pipeline Project to Serve the Thunder Bay Generating Station

Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory of the study area. Information regarding other proposed developments in the study area is also requested to be provided, for incorporation into the environmental assessment study as a component of a cumulative effects assessment. Please contact us to discuss the most efficient way to obtain this information.

If you have any questions or concerns regarding this project, please do not hesitate to contact the undersigned at 1-866-842-7559.

Sincerely,

STANTEC CONSULTING LTD.



Mark Knight, MA
Environmental Planner
Tel: (519) 836-6966 x218
Fax: (519) 836-2493
Mark.Knight@stantec.com

Attachment: Study Area Map

c. Doug Schmidt, Union Gas

**Stantec**

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

April 13, 2011
File: 160960657

Fort William First Nation
90 Anemki Drive, Suite 200
Thunder Bay ONP7C 4Z2

Attention: Chief Peter Collins,

Dear Chief Collins:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

At the request of Ontario Power Generation, Union Gas is working on preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station.

Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed project. As part of this process, Stantec has identified a Preliminary Preferred Route for the pipeline which is illustrated on the enclosed map including one location where alternative routes are under consideration. The Preliminary Preferred Route begins at TransCanada Pipeline Limited's Thunder Bay Meter Station; runs south to Union's Onion Lake and Belrose Stations and continues to the Thunder Bay Generating Station located on Mission Island, a distance of approximately 30 km.

The section of pipeline between TransCanada's Thunder Bay Meter Station and Union's Belrose Station involves the replacement of an existing 10 inch diameter pipeline with a new 16 inch diameter pipeline that would be located within the existing pipeline easement. The section of pipeline between the Belrose Station and the Thunder Bay Generating Station involves construction of a new 12 inch diameter pipeline that follows the Harbour Expressway east, before heading south to the Thunder Bay Generating Station along an existing hydroelectric utility corridor.

As a community with a potential interest in developments in the study area, you are invited to attend a Public Information Session to ask questions or provide comments regarding the proposed pipeline. Details regarding the Public Information Session are as follows:

**Travelodge Hotel Airline
698 West Arthur Street
Thunder Bay, Ontario
Thursday May 12, 2011
6:00 p.m. to 9:00 p.m.**

April 13, 2011

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

The Public Information Session will be conducted as a drop-in centre, and representatives from both Union Gas and Stantec Consulting will be available to discuss the Project and respond to questions or comments.

Comments received at the Public Information Session will be instrumental in the evaluation of various route alternatives for the pipeline including the Preliminary Preferred Route and ultimately in the selection of the final preferred route. Comments will also be used to help develop site-specific protection and mitigation measures.

The final Environmental Report, which will discuss the pipeline project only, will be included in an application to the Ontario Energy Board, whose approval is required before this project can proceed. If approved, construction would begin in 2013, with an anticipated in-service date of November 2013.

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Sincerely,

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mark.knight@stantec.com

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Alternative Route Map

c. Doug Schmidt, Union Gas

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Fax: (519) 836-2493

April 13, 2011
File: 160960657

Nishnawbe Aski Nation
710 Victoria Avenue East
Thunder Bay ONP7C 5P7

Attention: Carol Audet, Director of Lands and Resources

Dear Ms. Audet:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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mark.knight@stantec.com

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Alternative Route Map

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Guelph ON N1G 4P5
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Fax: (519) 836-2493

April 13, 2011
File: 160960657

Métis Nation of Ontario
500 Old St. Patrick Street, Unit 3
Ottawa ONK1N 9G4

Attention: Melanie Paradis, Director, Lands, Resources and Consultation Branch

Dear Ms. Paradis:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Guelph ON N1G 4P5
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Fax: (519) 836-2493

April 13, 2011
File: 160960657

Ojibways of the Pic River First Nation
78 Pic River Road, Box 193
Heron Bay ONP0T 1R0

Attention: Chief Roy Michano,

Dear Chief Michano:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

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Fax: (519) 836-2493

April 13, 2011
File: 160960657

Red Rock Indian Band
P.O. Box 1030
Nipigon ONP0T 2J0

Attention: Chief Pierre Pelletier,

Dear Chief Pelletier:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

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Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

April 13, 2011
File: 160960657

Whitesand First Nation
P.O. Box 68
Armstrong ONP0T 1A0

Attention: Chief Allan Gustafson,

Dear Chief Gustafson:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

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c. Doug Schmidt, Union Gas

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Fax: (519) 836-2493

April 13, 2011
File: 160960657

Pic Mobert First Nation
P.O. Box 717
Mobert ONP0M 2J0

Attention: Chief Johanna Desmoulin,

Dear Chief Desmoulin:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

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Fax: (519) 836-2493

April 13, 2011
File: 160960657

Sand Point First Nation
146 Court Street South
Thunder Bay ONP7B 2X6

Attention: Chief Paul Gladu,

Dear Chief Gladu:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

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Fax: (519) 836-2493

April 13, 2011
File: 160960657

Biinjitiwaabik Zaaging Anishinaabek First Nation
501 Spirit Bay Road, General Delivery
MacDiarmid ONPOT 2B0

Attention: Chief Bartholomew Hardy,

Dear Chief Hardy:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

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**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

The Public Information Session will be conducted as a drop-in centre, and representatives from both Union Gas and Stantec Consulting will be available to discuss the Project and respond to questions or comments.

Comments received at the Public Information Session will be instrumental in the evaluation of various route alternatives for the pipeline including the Preliminary Preferred Route and ultimately in the selection of the final preferred route. Comments will also be used to help develop site-specific protection and mitigation measures.

The final Environmental Report, which will discuss the pipeline project only, will be included in an application to the Ontario Energy Board, whose approval is required before this project can proceed. If approved, construction would begin in 2013, with an anticipated in-service date of November 2013.

If you have any questions or concerns regarding this project, please do not hesitate to contact the undersigned at 1-866-842-7559.

Sincerely,

STANTEC CONSULTING LTD.



Mark Knight
Environmental Planner
Tel: (519) 836-6050 ext. 218
Fax: (519) 836-2493
mark.knight@stantec.com

Attachment: Preliminary Preferred Route Map
Alternative Route Map

c. Doug Schmidt, Union Gas

**Stantec**

Stantec Consulting Ltd.
Suite 1 - 70 Southgate Drive
Guelph ON N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

April 13, 2011
File: 160960657

Pays Plat First Nation
10 Central Place
Pays Plat ONP0T 3C0

Attention: Chief Xavier Thompson,

Dear Chief Thompson:

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

In 2010, the Provincial Government released its Long-Term Energy Plan which confirms its commitment to eliminate coal-fired electricity generation from Ontario's electricity supply mix. This Energy Plan includes the conversion of the Thunder Bay Generating Station from coal to natural gas by 2014.

At the request of Ontario Power Generation, Union Gas is working on preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station.

Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed project. As part of this process, Stantec has identified a Preliminary Preferred Route for the pipeline which is illustrated on the enclosed map including one location where alternative routes are under consideration. The Preliminary Preferred Route begins at TransCanada Pipeline Limited's Thunder Bay Meter Station; runs south to Union's Onion Lake and Belrose Stations and continues to the Thunder Bay Generating Station located on Mission Island, a distance of approximately 30 km.

The section of pipeline between TransCanada's Thunder Bay Meter Station and Union's Belrose Station involves the replacement of an existing 10 inch diameter pipeline with a new 16 inch diameter pipeline that would be located within the existing pipeline easement. The section of pipeline between the Belrose Station and the Thunder Bay Generating Station involves construction of a new 12 inch diameter pipeline that follows the Harbour Expressway east, before heading south to the Thunder Bay Generating Station along an existing hydroelectric utility corridor.

As a community with a potential interest in developments in the study area, you are invited to attend a Public Information Session to ask questions or provide comments regarding the proposed pipeline. Details regarding the Public Information Session are as follows:

**Travelodge Hotel Airline
698 West Arthur Street
Thunder Bay, Ontario
Thursday May 12, 2011
6:00 p.m. to 9:00 p.m.**

April 13, 2011

**Reference: Notice of Public Information Session
Union Gas Pipeline Project to Serve the Thunder Bay Generating Station**

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Alternative Route Map

c. Doug Schmidt, Union Gas



Stantec Consulting Ltd.
70 Southgate Dr, Suite 1
Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

Stantec

October 3, 2011
File: 160960657

Fort William First Nation
90 Anemki Drive, Suite 200
Thunder Bay ON P7C 4Z2

Attention: Mr. Peter Collins

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

Union Gas Limited ('Union Gas') is working on the preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station. Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

The Preferred Pipeline Route will begin at TransCanada PipeLine Limited's Thunder Bay Meter Station and will travel south to Union Gas's Onion Lake and Belrose Stations. From Belrose Station the route will travel south to, then east on the Harbour Expressway before heading south on 110th Avenue and along an existing electrical transmission corridor to the Thunder Bay Generating Station. Please see the enclosed map.

The Preferred Pipeline Route utilizes an existing pipeline easement north of Belrose Station and a new easement, including road allowances, to the south of the station. The existing pipeline north of Belrose Station will be replaced with a 16" diameter pipeline. A 12" diameter pipeline will connect Belrose Station to the Thunder Bay Generating Station.

An application to the OEB, including an Environmental Report summarizing the environmental and cumulative effects assessment, will be submitted during the Fall of 2011. Before the pipeline project can proceed the OEB must approve the application. If the application is approved construction would begin in Spring 2013 with an anticipated in-service date of Fall 2013.

If you have any questions or concerns regarding this Project or the Preferred Pipeline Route please contact Stantec Consulting at 1-866-842-7559.

Sincerely,

STANTEC CONSULTING LTD.

Mark Knight, MA, MCIP, RPP
Environmental Planner
Mark.Knight@stantec.com

Attachment: Map of Preferred Pipeline Route

c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited



Stantec Consulting Ltd.
70 Southgate Dr, Suite 1
Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

Stantec

October 3, 2011
File: 160960657

Nishnawbe Aski Nation
710 Victoria Avenue East
Thunder Bay ON P7C 5P7

Attention: Ms. Carol Audet

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

Union Gas Limited ('Union Gas') is working on the preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station. Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

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Sincerely,

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Mark Knight, MA, MCIP, RPP
Environmental Planner
Mark.Knight@stantec.com

Attachment: Map of Preferred Pipeline Route

c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited



Stantec Consulting Ltd.
70 Southgate Dr, Suite 1
Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

Stantec

October 3, 2011
File: 160960657

Métis Nation of Ontario
500 Old St. Patrick Street, Unit 3
Ottawa ON K1N 9G4

Attention: Ms. Melanie Paradis

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

Union Gas Limited ('Union Gas') is working on the preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station. Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

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Mark Knight, MA, MCIP, RPP
Environmental Planner
Mark.Knight@stantec.com

Attachment: Map of Preferred Pipeline Route

c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited

**Stantec**

Stantec Consulting Ltd.
70 Southgate Dr, Suite 1
Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

October 3, 2011
File: 160960657

Ojibways of the Pic River First Nation
78 Pic River Road, Box 193
Heron Bay ON P0T 1R0

Attention: Mr. Roy Michano

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

Union Gas Limited ('Union Gas') is working on the preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station. Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

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Sincerely,

STANTEC CONSULTING LTD.

Mark Knight, MA, MCIP, RPP
Environmental Planner
Mark.Knight@stantec.com

Attachment: Map of Preferred Pipeline Route

c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited



Stantec Consulting Ltd.
70 Southgate Dr, Suite 1
Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

Stantec

October 3, 2011
File: 160960657

Red Rock Indian Band
P.O. Box 1030
Nipigon ON P0T 2J0

Attention: Mr. Pierre Pelletier

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

Union Gas Limited ('Union Gas') is working on the preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station. Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

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Sincerely,

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Mark Knight, MA, MCIP, RPP
Environmental Planner
Mark.Knight@stantec.com

Attachment: Map of Preferred Pipeline Route

c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited

**Stantec**

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70 Southgate Dr, Suite 1
Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

October 3, 2011
File: 160960657

Whitesand First Nation
P.O. Box 68
Armstrong ON P0T 1A0

Attention: Mr. Allan Gustafson

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

Union Gas Limited ('Union Gas') is working on the preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station. Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

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STANTEC CONSULTING LTD.

Mark Knight, MA, MCIP, RPP
Environmental Planner
Mark.Knight@stantec.com

Attachment: Map of Preferred Pipeline Route

c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited

**Stantec**

Stantec Consulting Ltd.
70 Southgate Dr, Suite 1
Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

October 3, 2011
File: 160960657

Pic Mobert First Nation
P.O. Box 717
Mobert ON P0M 2J0

Attention: Ms. Johanna Desmoulin

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

Union Gas Limited ('Union Gas') is working on the preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station. Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

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Environmental Planner
Mark.Knight@stantec.com

Attachment: Map of Preferred Pipeline Route

c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited



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70 Southgate Dr, Suite 1
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Fax: (519) 836 2493

Stantec

October 3, 2011
File: 160960657

Sand Point First Nation
146 Court Street South
Thunder Bay ON P7B 2X6

Attention: Mr. Paul Gladu

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

Union Gas Limited ('Union Gas') is working on the preliminary plans for the potential construction of a pipeline to bring natural gas to the Thunder Bay Generating Station. Union Gas has engaged the services of Stantec Consulting Ltd. ('Stantec') to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)*".

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Environmental Planner
Mark.Knight@stantec.com

Attachment: Map of Preferred Pipeline Route

c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited

**Stantec**

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Tel: (519) 836 6050
Fax: (519) 836 2493

October 3, 2011
File: 160960657

Biinjitiwaabik Zaaging Anishinaabek First Nation
501 Spirit Bay Road, General Delivery
MacDiarmid ON P0T 2B0

Attention: Mr. Bartholomew Hardy

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

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Attachment: Map of Preferred Pipeline Route

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Guelph, Ontario, N1G 4P5
Tel: (519) 836 6050
Fax: (519) 836 2493

October 3, 2011
File: 160960657

Pays Plat First Nation
10 Central Place
Pays Plat ON P0T 3C0

Attention: Mr. Xavier Thompson

Reference: Notice of Preferred Pipeline Route and Completed Environmental Report

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Environmental Planner
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c. Doug Schmidt, Union Gas Limited; John Bonin, Union Gas Limited



uniongas

A Spectra Energy Company

October 17, 2011

Mr. Peter Collins
Chief
Fort William First Nation
90 Anemki Drive, Suite 200
Thunder Bay, ON P7C 4Z2

Attention: Mr. Peter Collins

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

Dear Mr. Collins:

Union Gas Limited (Union) is working on plans to construct a pipeline to bring natural gas to the Thunder Bay Generating Station. Union has engaged the services of Stantec Consulting Ltd. (Stantec) to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011). Union Gas is proposing to construct this pipeline in the summer of 2013.

The Environmental Report (ER) for the proposed project was recently completed and has been enclosed for your review. If you have any comments regarding Union's proposal or if you would like to receive a copy of the ER, please contact me at 1-519-539-8509, Extension 5021063 or by email at JBonin@uniongas.com.

Thank you for your time in this endeavor.

UNION GAS LIMITED

for John Bonin
Manager Aboriginal Affairs

Attach.



uniongas

A Spectra Energy Company

October 17, 2011

Ms. Carol Audet
Director of Lands and Resources
Nishnawbe Aski Nation
710 Victoria Avenue East
Thunder Bay, ON P7C 5P7

Attention: Ms. Carol Audet

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

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UNION GAS LIMITED

for John Bonin
Manager Aboriginal Affairs

Attach.



uniongas

A Spectra Energy Company

October 17, 2011

Ms. Melanie Paradis
Director, Lands, Resources and Consultation Branch
Métis Nation of Ontario
500 Old St. Patrick Street, Unit 3
Ottawa, ON K1N 9G4

Attention: Ms. Melanie Paradis

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

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uniongas

A Spectra Energy Company

October 17, 2011

Mr. Roy Michano
Chief
Ojibways of the Pic River First Nation
78 Pic River Road, Box 193
Heron Bay, ON P0T 1R0

Attention: Mr. Roy Michano

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

Dear Mr. Michano:

Union Gas Limited (Union) is working on plans to construct a pipeline to bring natural gas to the Thunder Bay Generating Station. Union has engaged the services of Stantec Consulting Ltd. (Stantec) to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)". Union Gas is proposing to construct this pipeline in the summer of 2013.

The Environmental Report (ER) for the proposed project was recently completed and has been enclosed for your review. If you have any comments regarding Union's proposal or if you would like to receive a copy of the ER, please contact me at 1-519-539-8509, Extension 5021063 or by email at JBonin@uniongas.com.

Thank you for your time in this endeavor.

UNION GAS LIMITED

for John Bonin
Manager Aboriginal Affairs

Attach.



uniongas

A Spectra Energy Company

October 17, 2011

Mr. Pierre Pelletier
Chief
Red Rock Indian Band
P.O. Box 1030
Nipigon, ON P0T 2J0

Attention: Mr. Pierre Pelletier

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

Dear Mr. Pelletier:

Union Gas Limited (Union) is working on plans to construct a pipeline to bring natural gas to the Thunder Bay Generating Station. Union has engaged the services of Stantec Consulting Ltd. (Stantec) to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011). Union Gas is proposing to construct this pipeline in the summer of 2013.

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UNION GAS LIMITED

for John Bonin
Manager Aboriginal Affairs

Attach.



uniongas

A Spectra Energy Company

October 17, 2011

Mr. Allan Gustafson
Chief
Whitesand First Nation
P.O. Box 68
Armstrong, ON P0T 1A0

Attention: Mr. Allan Gustafson

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

Dear Mr. Gustafson:

Union Gas Limited (Union) is working on plans to construct a pipeline to bring natural gas to the Thunder Bay Generating Station. Union has engaged the services of Stantec Consulting Ltd. (Stantec) to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011). Union Gas is proposing to construct this pipeline in the summer of 2013.

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UNION GAS LIMITED

for John Bonin
Manager Aboriginal Affairs

Attach.



uniongas

A Spectra Energy Company

October 17, 2011

Ms. Johanna Desmoulin
Chief
Pic Mobert First Nation
P.O. Box 717
Mobert, ON P0M 2J0

Attention: Ms. Johanna Desmoulin

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

Dear Ms. Desmoulin:

Union Gas Limited (Union) is working on plans to construct a pipeline to bring natural gas to the Thunder Bay Generating Station. Union has engaged the services of Stantec Consulting Ltd. (Stantec) to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011). Union Gas is proposing to construct this pipeline in the summer of 2013.

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UNION GAS LIMITED

for John Bonin
Manager Aboriginal Affairs

Attach.



uniongas

A Spectra Energy Company

October 17, 2011

Mr. Paul Gladu
Chief
Sand Point First Nation
146 Court Street South
Thunder Bay, ON P7B 2X6

Attention: Mr. Paul Gladu

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

Dear Mr. Gladu:

Union Gas Limited (Union) is working on plans to construct a pipeline to bring natural gas to the Thunder Bay Generating Station. Union has engaged the services of Stantec Consulting Ltd. (Stantec) to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011). Union Gas is proposing to construct this pipeline in the summer of 2013.

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Thank you for your time in this endeavor.

UNION GAS LIMITED

for John Bonin
Manager Aboriginal Affairs

Attach.



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A Spectra Energy Company

October 17, 2011

Mr. Bartholomew Hardy
Chief
Biinjitiwaabik Zaaging Anishinaabek First Nation
501 Spirit Bay Road, General Delivery
MacDiarmid, ON P0T 2B0

Attention: Mr. Bartholomew Hardy

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

Dear Mr. Hardy:

Union Gas Limited (Union) is working on plans to construct a pipeline to bring natural gas to the Thunder Bay Generating Station. Union has engaged the services of Stantec Consulting Ltd. (Stantec) to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)". Union Gas is proposing to construct this pipeline in the summer of 2013.

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UNION GAS LIMITED

for John Bonin
Manager Aboriginal Affairs

Attach.



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A Spectra Energy Company

October 17, 2011

Mr. Xavier Thompson
Chief
Pays Plat First Nation
10 Central Place
Pays Plat, ON P0T 3C0

Attention: Mr. Xavier Thompson

Re: Union Gas Limited – Thunder Bay Generating Station Pipeline Project

Dear Mr. Thompson:

Union Gas Limited (Union) is working on plans to construct a pipeline to bring natural gas to the Thunder Bay Generating Station. Union has engaged the services of Stantec Consulting Ltd. (Stantec) to undertake an environmental and cumulative effects assessment of the proposed Project. As part of this process, a Preferred Pipeline Route has been identified based on consultation, environmental, engineering and constructability considerations as well as the Ontario Energy Board (OEB) Guideline "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2011)". Union Gas is proposing to construct this pipeline in the summer of 2013.

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